FLUOR FERNALD CLOSURE PLAN BASIS OF ESTIMATE

PBS-02 DEMOLITION AND DECONTAMINATION

SEPTEMBER 2001

2503-PL-0010 REVISION 1

Section 1: BFDP - Project Management

1.0 Narrative

- 1.1 Overview
- 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government Furnished Equipment/Service
- 1.3 Drivers
- 1.4 Project Physical Description
 - 1.4.1 BFDP Project Management
 - 1) Task #1 D&D Project Management
 - 2) Task #2 Planning and Procurement
 - 3) Task #3 Construction Management
 - 4) Task #4 Project Closeout
 - 5) Task #5 On-Site Waste Disposal
- 1.5 Project Plan/Technical Scope and Qualification
 - 1.5.1 BDFP D&D Project Management
 - 1) Task #1 Facility D&D Project Management
 - 1.1) Plan/Scope Facility D&D Project Management
 - 1.2) Quantification Facility D&D Project Management
 - 2) Task #2 Planning and Procurement
 - 2.1) Plan/Scope Planning and Procurement
 - 2.2) Quantification Planning and Procurement
 - 3) Task #3 Construction Management
 - 3.1) Plan/Scope Construction Management
 - 3.2) Quantification Construction Management
 - 4) Task #4 Project Closeout
 - 4.1) Plan/Scope Project Closeout
 - 4.2) Quantification Project Closeout
 - 5) Onsite Waste Disposal
 - 5.1) Plan/Scope Onsite Waste Disposal
 - 5.2) Quantification

Section 2: BFUD - Facility Isolation and Utility Redistribution

1.0 Narrative

- 1.1 Overview
- 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
- 1.3 Drivers
- 1.4 Project Physical Description
 - 1.4.1 BFUD Facility Isolation
 - 1) Task #1 Facility Isolation Plant 2
 - 2) Task #2 Facility Isolation Plant 3
 - 3) Task #3 Facility Isolation General Sump
 - 4) Task #4 Facility Isolation Plant 8
 - 5) Task #5 Facility Isolation Health and Safety Building
 - 6) Task #6 Facility Isolation Liquid Storage
 - 7) Task #7 Facility Isolation Pilot Plant
 - 8) Task #8 Facility Isolation Laboratory
 - 9) Task #9 Facility Isolation Administration (Includes Electrical Complex)
 - 10) Task #10 Facility Isolation East Warehouse
 - 11) Task #11 Facility Isolation Miscellaneous Structures
 - 12) Task #12 Facility Isolation Building 64/65
 - 13) Task #13 Facility Isolation Plant 1, Phase II
 - 14) Task #14 Facility Isolation Plant 5
 - 15) Task #15 Facility Isolation Plant 6
 - 16) Task #16 Facility Isolation Area 3A
 - 17) Task #17 Facility Isolation Area 3B
 - 18) Task #18 Facility Isolation Area 4A
 - 19) Task #19 Facility Isolation Area 4B
 - 20) Task #20 Facility Isolation Area 5
 - 1.4.2 BFUD Utility Redistribution
 - 1) Task #1 Utility Redistribution Plant 2
 - 2) Task #2 Utility Redistribution Plant 3
 - 3) Task #3 Utility Redistribution General Sump
 - 4) Task #4 Utility Redistribution Plant 8
 - 5) Task #5 Utility Redistribution Health and Safety Building
 - 6) Task #6 Utility Redistribution Liquid Storage
 - 7) Task #7 Utility Redistribution Pilot Plant
 - 8) Task #8 Utility Redistribution Laboratory
 - 9) Task #9 Utility Redistribution Administration (Includes Electrical Complex)
 - 10) Task #10 Utility Redistribution East Warehouse
 - 11) Task #11 Utility Redistribution Miscellaneous Structures

- 12) Task #12 Utility Redistribution Building 64/65
- 13) Task #13 Utility Redistribution Plant 1, Phase II
- 14) Task #14 Utility Redistribution Plant 5
- 15) Task #15 Utility Redistribution Plant 6
- 16) Task #16 Utility Redistribution Area 3A
- 17) Task #17 Utility Redistribution Area 3B
- 18) Task #18 Utility Redistribution Area 4A
- 19) Task #19 Utility Redistribution Area 4B
- 20) Task #20 Utility Redistribution Area 5
- 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 BFUD1 Facility Isolation
 - 1) Task #1 Facility Isolation Plant 2
 - 1.1) Plan/Scope Facility Isolation Plant 2
 - 1.2) Quantification Facility Isolation Plant 2
 - 2) Task #2 Facility Isolation Plant 3
 - 2.1) Plan/Scope Facility Isolation Plant 3
 - 2.2) Quantification Facility Isolation Plant 3
 - 3) Task #3 Facility Isolation General Sump
 - 3.1) Plan/Scope Facility Isolation General Sump
 - 3.2) Quantification Facility Isolation General Sump
 - 4) Task #4 Facility Isolation Plant 8
 - 4.1) Plan/Scope Facility Isolation Plant 8
 - 4.2) Quantification Facility Isolation Plant 8
 - 5) Task #5 Facility Isolation Health and Safety Building
 - 5.1) Plan/Scope Facility Isolation Health and Safety Building
 - 5.2) Quantification Facility Isolation Health and Safety Building
 - 6) Task #6 Facility Isolation Liquid Storage
 - 6.1) Plan/Scope Facility Isolation Liquid Storage
 - 6.2) Quantification Facility Isolation Liquid Storage
 - 7) Task #7 Facility Isolation Pilot Plant
 - 7.1) Plan/Scope Facility Isolation Pilot Plant
 - 7.2) Quantification Facility Isolation Pilot Plant
 - 8) Task #8 Facility Isolation Laboratory
 - 8.1) Plan/Scope Facility Isolation Laboratory
 - 8.2) Quantification Facility Isolation Laboratory
 - 9) Task #9 Facility Isolation Administration (Includes Electrical Complex)
 - 9.1) Plan/Scope Facility Isolation Administration (Includes Electrical Complex)
 - 9.2) Quantification Facility Isolation Administration (Includes Electrical Complex)
 - 10) Task #10 Facility Isolation East Warehouse
 - 10.1) Plan/Scope Facility Isolation East Warehouse
 - 10.2) Quantification Facility Isolation East Warehouse

- 11) Task #11 Facility Isolation Miscellaneous Structures
 - 11.1) Plan/Scope Facility Isolation Miscellaneous Structures
 - 11.2) Quantification Facility Isolation Miscellaneous Structures
- 12) Task #12 Facility Isolation Building 64/65
 - 12.1) Plan/Scope Facility Isolation Building 64/65
 - 12.2) Quantification Facility Isolation Building 64/65
- 13) Task #13 Facility Isolation Plant 1, Phase II
 - 13.1) Plan/Scope Facility Isolation Plant 1, Phase II
 - 13.2) Quantification Facility Isolation Plant 1, Phase II
- 14) Task #14 Facility Isolation Plant 5
 - 14.1) Plan/Scope Facility Isolation Plant 5
 - 14.2) Quantification Facility Isolation Plant 5
- 15) Task #15 Facility Isolation Plant 6
 - 15.1) Plan/Scope Facility Isolation Plant 6
 - 15.2) Quantification Facility Isolation Plant 6
- 16) Task #16 Facility Isolation Area 3A
 - 16.1) Plan/Scope Facility Isolation Area 3A
 - 16.2) Quantification Facility Isolation Area 3A
- 17) Task #15 Facility Isolation Area 3B
 - 17.1) Plan/Scope Facility Isolation Area 3B
 - 17.2) Quantification Facility Isolation Area 3B
- 18) Task #18 Facility Isolation Area 4A
 - 18.1) Plan/Scope Facility Isolation Area 4A
 - 18.2) Quantification Facility Isolation Area 4A
- 19) Task #19 Facility Isolation Area 4B
 - 19.1) Plan/Scope Facility Isolation Area 4B
 - 19.2) Quantification Facility Isolation Area 4B
- 20) Task #20 Facility Isolation Area 5
 - 20.1) Plan/Scope Facility Isolation Area 5
 - 20.2) Quantification Facility Isolation Area 5
- 1.5.2 BFUD2 Utility Redistribution
 - 1) Task #1 Utility Redistribution Plant 2
 - 1.1) Plan/Scope Utilities Redistribution Plant 2
 - 1.2) Quantification Utilities Redistribution Plant 2
 - 2) Task #2 Utilities Redistribution Plant 3
 - 2.1) Plan/Scope Utilities Redistribution Plant 3
 - 2.2) 2.2) Quantification Utilities Redistribution Plant 3
 - 3) Task #3 Utilities Redistribution General Sump
 - 3.1) Plan/Scope Utilities Redistribution General Sump
 - 3.2) Quantification Utilities Redistribution General Sump
 - 4) Task #4 Utilities Redistribution Plant 8
 - 4.1) Plan/Scope Utilities Redistribution Plant 8
 - 4.2) Quantification Utilities Redistribution Plant 8
 - 5) Task #5 Utilities Redistribution Health and Safety Building

- 5.1) Plan/Scope Utilities Redistribution Health and Safety Building
- 5.2) Quantification Utilities Redistribution Health and Safety Building
- 6) Task #6 Utilities Redistribution Liquid Storage
 - 6.1) Plan/Scope Utilities Redistribution Liquid Storage
 - 6.2) Quantification Utilities Redistribution Liquid Storage
- 7) Task #7 Utilities Redistribution Pilot Plant
 - 7.1) Plan/Scope Utilities Redistribution Pilot Plant
 - 7.2) Quantification Utilities Redistribution Pilot Plant
- 8) Task·#8 Utilities Redistribution Laboratory
 - 8.1) Plan/Scope Utilities Redistribution Laboratory
 - 8.2) Quantification Utilities Redistribution Laboratory
- 9) Task #9 Utilities Redistribution Administration (Includes Electrical Complex)
 - 9.1) Plan/Scope Utilities Redistribution Administration (Includes Electrical Complex)
 - 9.2) Quantification Utilities Redistribution Administration (Includes Electrical Complex)
- 10) Task #10 Utilities Redistribution East Warehouse
 - 10.1) Plan/Scope Utilities Redistribution East Warehouse
 - 10.2) Quantification Utilities Redistribution East Warehouse
- 11) Task #11 Utilities Redistribution Miscellaneous Structures
 - 11.1) Plan/Scope Utilities Redistribution Miscellaneous Structures
 - 11.2) Quantification Utilities Redistribution Miscellaneous Structures
- 12) Task #12 Utilities Redistribution Building 64/65
 - 12.1) Plan/Scope Utilities Redistribution Building 64/65
 - 12.2) Quantification Utilities Redistribution Building 64/65
- 13) Task #13 Utilities Redistribution Plant 1, Phase II
 - 13.1) Plan/Scope Utilities Redistribution Plant 1, Phase II
 - 13.2) Quantification Utilities Redistribution Plant 1, Phase
- 14) Task #14 Utilities Redistribution Plant 5
 - 14.1) Plan/Scope Utilities Redistribution Plant 5
 - 14.2) Quantification Utilities Redistribution Plant 5
- 15) Task #15 Utilities Redistribution Plant 6
 - 15.1) Plan/Scope Utilities Redistribution Plant 6
 - 15.2) Quantification Utilities Redistribution Plant 6
- 16) Task #16 Utilities Redistribution Area 3A
 - 16.1) Plan/Scope Utilities Redistribution Area 3A
 - 16.2) Quantification Utilities Redistribution Area 3A
- 17) Task #15 Utilities Redistribution Area 3B
 - 17.1) Plan/Scope Utilities Redistribution Area 3B

PBS-02, DEMOLITION AND DECONTAMINATION CLOSURE PLAN BASIS OF ESTIMATE 2503-PL-0010, Revision 1 September 2001

- 17.2) Quantification Utilities Redistribution Area 3B
- 18) Task #18 Utilities Redistribution Area 4A
 - 18.1) Plan/Scope Utilities Redistribution Area 4A
 - 18.2) 18.2) Quantification Utilities Redistribution Area 4A
- 19) Task #19 Utilities Redistribution Area 4B
 - 19.1) Plan/Scope Utilities Redistribution Area 4B
 - 19.2) 19.2) Quantification Utilities Redistribution Area 4B
- 20) Task #20 Utilities Redistribution Area 5
 - 20.1) Plan/Scope Utilities Redistribution Area 5
 - 20.2) Quantification Utilities Redistribution Area 5

Section 3: BFDD - Facility D&D

1.0 Narrative

- 1.1 Overview
- 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
- 1.3 Drivers
- 1.4 Project Physical Descriptions
 - 1.4.1 BFDD2 D&D Subcontract Plant 2
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization
 - 3) Task #3 Building 2A
 - 4) Task #4 Building 2D
 - 5) Task #5 Component 2F
 - 6) Task #6 Component 2H
 - 7) Task #7 Demobilization
 - 1.4.2 BFDD3 D&D Subcontract Plant 3
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization
 - 3) Task #3 Building 3B
 - 4) Task #4 Building 3C
 - 5) Task #5 Component 3D
 - 6) Task #6 Building 3E
 - 7) Task #7 Component 3J
 - 8) Task #8 Component 3K
 - 9) Task #9 Building 39A
 - 10) Task #10 Component 22E
 - 11) Task #11 Demobilization
 - 1.4.3 BFDDS D&D Subcontract General Sump
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization
 - 3) Task #3 Building 2B
 - 4) Task #4 Building 2C
 - 5) Task #5 Component 3H
 - 6) Task #6 Component 18B
 - 7) Task #7 Building 18D
 - 8) Task #8 Building 18H
 - 9) Task #9 Building 3A
 - 10) Task #10 Building 3L
 - 11) Task #11 Miscellaneous Pipes and Racks
 - 12) Task #12 Demobilization
 - 1.4.4 BFDD8 D&D Subcontract Plant 8
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization

- 3) Task #3 Building 8A4) Task #4 Building 8B
- 5) Task #5 Building 8C
- 6) Task #6 Building 8D
- 7) Task #7 Component 8E
- 8) Task #8 Component 8G
- 9) Task #9 Component 8H
- 10) Task #10 Demobilization
- 1.4.5 BFDDH D&D Subcontract Health and Safety Building
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization
 - 3) Task #3 Building 53A
 - 4) Task #4 Demobilization
- 1.4.6 BFDDQ D&D Subcontract Liquid Storage
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization
 - 3) Task #3 Building 26A
 - 4) Task #4 Component 26B
 - 5) Task #5 Building 28D
 - 6) Task #6 Building 45A
 - 7) Task #7 Building 80
 - 8) Task #8 Demobilization
- 1.4.7 BFDDP D&D Subcontract Pilot Plant
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization
 - 3) Task #3 Building 13A
 - 4) Task #4 Component 13B
 - 5) Task #5 Building 13C
 - 6) Task #6 Component 13D
 - 7) Task #7 Building 37
 - 8) Task #8 Building 54A
 - 9) Task #9 Building 54B
 - 10) Task #10 Building 54C
 - 11) Task #11 Demobilization
- 1.4.8 BFDDB D&D Subcontract Laboratory
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization
 - 3) Task #3 Building 15A
 - 4) Task #4 Building 15B
 - 5) Task #5 Building 15C
 - 6) Task #6 Demobilization
- 1.4.9 BFDDA D&D Subcontract Administration
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization
 - 3) Task #3 Building 11
 - 4) Task #4 Building 14A

- 5) Task #5 Building 14B
- 6) Task #6 Component 20K
- 7) Task #7 Building 53B
- 8) Task #8 Building 46
- 9) Task #9 Building 31A
- 10) Task #10 Demobilization
- 1.4.10 BFDDE D&D Subcontract East Warehouse
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization
 - 3) Task #3 Component 20D
 - 4) Task #4 Building 77
 - 5) Task #5 Building 79
 - 6) Task #6 Building 82A
 - 7) Task #7 Demobilization
- 1.4.11 BFDDM D&D Subcontract Miscellaneous Structures
 - 1) Task #1 Component 5F (Plant 6 Covered Storage Pad)
 - 2) Task #2 Component 12E (Maintenance Storage Shed)
 - 3) Task #3 Component 12F (Maintenance Storage Shed)
 - 4) Task #4 Building 12G (Restored Area Maintenance)
 - 5) Task #5 Component 16B (Electrical Substation)
 - 6) Task #6 Component 16C (Electrical Panels and Transformer)
 - 7) Task #7 Component 16F (Trailer Substation #1)
 - 8) Task #8 Component 16G (Trailer Substation #2)
 - 9) Task #9 Component 20E (Well House #1)
 - 10) Task #10 Component 20F (Well House #2)
 - 11) Task #11 Component 20G (Well House #3)
 - 12) Task #12 Component 22B (Storm Sewer Lift Station)
 - 13) Task #13 Component 22D (Scale House and Weigh Scale)
 - 14) Task #14 Component 23 (Meteorological Tower)
 - 15) Task #15 Component 25C (Sewer Llift Station Building)
 - 16) Task #16 Component 26C (Main Electrical Substation Riser/Strainer House)
 - 17) Task #17 Building 28E (Guard Post at OSDF South Entrance)
 - 18) Task #18 Building 28G (Guard Post NW of Building 45)
 - 19) Task #19 Building 28H (Guard Post South of K-65 Area)
 - 20) Task #20 Building 28J (Security Checkpoint South Access Road)
 - 21) Task #21 Building 28K (Security Checkpoint East Parking Lot)
 - 22) Task #22 Building 28L (Guard Post N. Construction Access Road)
 - 23) Task #23 Building 28M (Guard Post on "F" Street)
 - 24) Task #24 Building 30D (Sampling Line Processing)
 - 25) Task #25 Building 50 (Maintenance Storage Building
 - 26) Task #26 Building 52A (RTRAK Building)
 - 27) Task #27 Building 52B (ASTD SCEP Buildling)

- 28) Task #28 - Building 60 (Quonset Hut #1) 29) Task #29 - Building 61 (Quonset Hut #2) 30) Task #30 - Building 62 (Quonset Hut #3) Task #31 - Building 68 (Pilot Plant Warehouse) 31) 32) Task #32 - Building 93A (Southwest Boiler House)
- 33) Task #33 - Component G-008 (Pipe Bridges) 34) Task #34 - Building TS-08 (Environmental Monitoring
- **Equipment Storage)**
- 35) Task #35 - Trailer T1 (FF)
- Task #36 Trailer T2 (Rad Safety) 36)
- 37) Task #37 - Trailer T3 (Wise Construction)
- 38) Task #38 - Trailer T4 (Multimedia Visual Storage)
- Task #39 Trailer T5 (FF Construction) 39)
- 40) Task #40 - Trailer T6 (Restrooms)
- 41) Task #41 - Trailer T7 (FF)
- 42) Task #42 - Trailer T8 (Wise Construction)
- 43) Task #43 - Trailer 12 (CRU4-DLS)
- 44) Task #44 - Trailer T17 (FF)
- Task #45 Trailer T18 (Break Trailer) 45)
- 46) Task #46 - Trailer T19 (Rad Safety)
- 47) Task #47 - Trailer T23 (10 Plex)
- 48) Task #48 - Trailer T24 (7 Plex - North)
- 49) Task #49 - Trailer T25 (7 Plex - South)
- Task #50 Trailer T26 (Waste Management) 50)
- 51) Task #51 - Trailer T29 (Computer)
- 52) Task #52 - Trailer T30 (Computer)
- 53) Task #53 - Trailer T33 (Shipping Office)
- 54) Task #54 - Trailer T34 (FF)
- 55) Task #55 - Trailer T35 (FF)
- 56) Task #56 - Trailer T36 (Heavy Equipment Operators)
- 57) Task #57 - Trailer T40 (Thorium Overpack)
- 58) Task #58 - Trailer T41 (Waste Certification - QA)
- 59) Task #59 - Trailer T42 (Respirator Washing Facility)
- 60) Task #60 - Trailer T43 (Restoration)
- Task #61 Trailer T44 (FF Maintenance) 61)
- 62) Task #62 - Trailer T45 (Environmental Monitoring)
- 63) Task #63 - Trailer T46 (Environmental Monitoring)
- Task #64 Trailer T49 (Bio-Assay Semi-Trailer) 64)
- 65) Task #65 - Trailer T40 (Rad Safety)
- 66) Task #66 - Trailer T57 (Rad Safety)
- Task #67 Trailer T58 (Construction Office) 67)
- Task #68 Trailer T59 (FF Waste Management) 68)
- 69) Task #69 - Trailer T60 (Environmental Monitoring)
- 70) Task #70 - Trailer T61 (Startup Group)
- Task #71 Trailer T62 (Startup Group) 71)
- 72) Task #72 - Trailer T65 (Plant 1 Pad MC&A Office)

- 73) Task #73 Trailer T66 (RIMIA Tri-Plex)
- 74) Task #74 Trailer T67 (Rad. Tech.)
- 75) Task #75 Trailer T68 (CRU1 Office)
- 76) Task #76 Trailer T69 (Control Point RIMIA)
- 77) Task #77 Trailer T71 (Safe Shutdown)
- 78) Task #78 Trailer T72 (Safe Shutdown)
- 79) Task #79 Trailer T74 (ARASA Changeout Facility)
- 80) Task #80 Trailer T75 (Multimedia Services)
- 81) Task #81 Trailer T82 (Capital Project)
- 82) Task #82 Trailer T83 (Capital Project)
- 83) Task #83 Trailer T84 (Capital Project)
- 84) Task #84 Trailer T85 (Capital Project)
- 85) Task #85 Trailer T86 (Capital Project)
- 86) Task #86 Trailer T87 (Capital Project)
- 87) Task #87 Trailer T89 (WPA Men's Changeout)
- 88) Task #88 Trailer T90 (WPA Women's Changeout)
- 89) Task #89 Trailer T91 (WPA Men's Changeout)
- 90) Task #90 Trailer T92 (WPA Breakroom)
- 91) Task #91 Trailer T93 (Radiation Control Unit Quad)
- 92) Task #92 Trailer T94 (Radiation Control Unit Quad)
- 93) Task #93 Trailer T95 (Radiation Control Unit Quad)
- 94) Task #94 Trailer T96 (Radiation Control)
- 95) Task #95 Trailer T97 (FF Office CRU4)
- 96) Task #96 Trailer T98 (OSDF)
- 97) Task #97 Trailer T100 (FF Office)
- 98) Task #98 Trailer T103 (Storage)
- 99) Task #99 Trailer T108 (IAWWTF)
- 100) Task #100 Trailer T109 (IAWWTF)
- 101) Task #101 Trailer T117 (CRU4 Construction Support Office)
- 102) Task #102 Trailer T118 (CRU4 Support Office)
- 103) Task #103 Trailer T119 (Restrooms)
- 104) Task #104 Trailer T121 (FF Office)
- 105) Task #105 Trailer T122 (Storage)
- 106) Task #106 Trailer T127 (OEPA Part of T68)
- 107) Task #107 Trailer T128 (Mixed Waste)
- 108) Task #108 Trailer T129 (OEPA Part of T68)
- 109) Task #109 Trailer T130 (Breakroom)
- 110) Task #110 Trailer T131 (Breakroom)
- 111) Task #111 Trailer T132 (Kelchner Office)
- 112) Task #112 Trailer T135 (Boiler Maintenance)
- 113) Task #113 Trailer T138 (Southern Waste Unit Site Prep. Group)
- 114) Task #114 Trailer T139 (Southern Waste Unit Site Prep. Group)
- 115) Task #115 Trailer T141 (Maintenance Storage)
- 116) Task #116 Trailer T142 (Maintenance Storage)

- 117) Task #117 Trailer T164 (FF Training)
 118) Task #118 Trailer T165 (FF Training)
- 119) Task #119 Trailer T166 (Industrial Relations)
- 120) Task #120 Trailer T167 (Industrial Relations)
- 121) Task #121 Trailer T168 (ARASA Contractor)
- 122) Task #122 Trailer T169 (ARASA Contractor)
- 123) Task #123 Trailer T170 (ARASA Contractor)
- 124) Task #124 Trailer T171 (ARASA Contractor)
- 125) Task #125 Trailer T172 (FCNDP)
- 126) Task #126 Trailer T173 (FCNDP)
- 127) Task #127 Trailer T173 (FCNDP)
- 128) Task #128 Trailer T175 (FCNDP)
- 129) Task #129 Trailer T176 (FCNDP)
- 130) Task #130 Trailer T177 (FCNDP)
- 131) Task #131 Trailer T178 (FCNDP)
- 132) Task #132 Trailer T179 (FCNDP)
- 133) Task #133 Trailer T181 (FF Office)
- 134) Task #134 Trailer T182 (FF Office)
- 135) Task #135 Trailer T183 (FF Office)
- 136) Task #136 Trailer T186 (OSDF Office Trailer)
- 137) Task #137 Trailer T191 (Breakroom/Cooldown)
- 138) Task #138 Trailer T301 (IT Corp.)
- 139) Task #139 Trailer T305 (Environmental Monitoring)
- 140) Task #140 Trailer T306 (Environmental Monitoring)
- 141) Task #141 Trailer T312 (Cell 1 Personal Cool Down)
- 142) Task #142 Trailer T313 (ARASA Admin. Office "A")
- 143) Task #143 Trailer T314 (ARASA Admin. Office "B")
- 144) Task #144 Trailer T315 (ARASA Laboratory Office)
- 145) Task #145 Trailer T316 (ARASA Laboratory "A")
- 146) Task #146 Trailer T317 (ARASA Laboratory "B")
- 147) Task #147 Trailer T318 (ARASA MHB/RCLO Pow. Mod. Bldg.)
- 148) Task #148 Trailer T319 (ARASA Breakroom)
- 149) Task #149 Trailer T320 (ARASA Laundry/Resp. Wash Facility)
- 150) Task #150 Trailer T321 (ARASA MHB Rad. Cont. Trailer)
- 151) Task #151 Trailer T322 (ARASA Supervisor's Office)
- 152) Task #152 Trailer T323 (ARASA Control Room)
- 153) Task #153 Trailer T325 (ARASA GCS/WTS Pow. Mod. Bldg.)
- 154) Task #154 Trailer T326 (ARASA Cont. Emissions Mon. Tr.)
- 155) Task #155 Trailer T327 (Weigh Scale Ticket Office)
- 156) Task #156 Trailer T330 (Doffing Trailer)
- 157) Task #157 Trailer T502 (IT Corp. ARASA)
- 158) Task #158 Trailer T505 (Facilities Shutdown Break Trailer)
- 159) Task #159 Trailer T506 (Office)

- 160) Task #160 Trailer T512 (Break M. Ravenscraft)
- 161) Task #161 Trailer T513 (Construction Coordinators)
- 162) Task #162 Trailer T514 (Construction Conference Room)
- 163) Task #163 Trailer T520 (S&W Office)
- 164) Task #164 Trailer T529 (Storage)
- 165) Task #165 Trailer T540 (Triplex Porter Breakroom)
- 166) Task #166 Trailer T603 (Storage Semi-Trailer)
- 167) Task #167 Trailer T604 (Maintenance Storage Semi Trailer)
- 168) Task #168 Trailer T608 (Break Trailer Waste Management)
- 169) Task #169 Building 24C Locomotive Engine House/Repair and Truck Washing Facility
- 170) Task #170 Railroad Track
- 1.4.12 BFDDN D&D Subcontract Building 64/65
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization
 - 3) Task #3 Building 64 (Thorium Warehouse)
 - 4) Task #4 Building 65 (Old Plant 5 Warehouse)
 - 5) Task #5 Demobilization
- 1.4.13 BFDD1 D&D Subcontract Plant 1, Phase II
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization
 - 3) Task #3 Building 1B
 - 4) Task #4 Component 20A
 - 5) Task #5 Building 30A
 - 6) Task #6 Building 56A
 - 7) Task #7 Building 71
 - 8) Task #8 Components TS-4, TS-5, and TS-6
 - 9) Task #9 Component 16N
- 1.4.14 BFDD5 D&D Subcontract Plant 5
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization
 - 3) Task #3 Building 5A
 - 4) Task #4 Component 5D
 - 5) Task #5 Demobilization
- 1.4.15 BFDD6 D&D Subcontract Plant 6
 - 1) Task #1 Premobilization
 - 2) Task #2 Mobilization
 - 3) Task #3 Building 6A
 - 4) Task #4 Building 6B
 - 5) Task #5 Building 6C
 - 6) Task #6 Building 6D
 - 7) Task #7 Building 6E
 - 8) Task #8 Building 6F
 - 9) Task #9 Building 6G
 - 10) Task #10 Demobilization

- 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 BFDD2 D&D Subcontract Plant 2
 - 1) Task #1 Premobilization
 - 1.1) Plan/Scope Premobilization
 - 1.2) Quantification Premobilization
 - 2) Task #2 Mobilization
 - 2.1) Plan/Scope Mobilization
 - 2.2) Quantification Mobilization
 - 3) Task #3 Buliding 2A
 - 3.1) Plan/Scope Building 2A
 - 3.2) Quantification Building 2A
 - 4) Task #4 Building 2D
 - 4.1) Plan/Scope Building 2D
 - 4.2) Quantification Building 2D
 - 5) Task #5 Component 2F
 - 5.1) Plan/Scope Component 2F
 - 5.2) Quantification Component 2F
 - 6) Task #6 Component 2H
 - 6.1) Plan/Scope Component 2H
 - 6.2) Quantification Component 2H
 - 7) Task #7 Demobilization
 - 7.1) Plan/Scope Demobilization
 - 7.2) Quantification Demobilization
 - 1.5.2 BFDD3 D&D Subcontract Plant 3
 - 1) Task #1 Premobilization
 - 1.1) Plan/Scope Premobilization
 - 1.2) Quantification Premobilization
 - 2) Task #2 Mobilization
 - 2.1) Plan/Scope Mobilization
 - 2.2) Quantification Mobilization
 - 3) Task #3 Building 3B
 - 3.1) Plan/Scope Building 3B
 - 3.2) Quantification Building 3B
 - 4) Task #4 Building 3C
 - 4.1) Plan/Scope Building 3C
 - 4.2) Quantification Building 3C
 - 5) Task #5 Component 3D
 - 5.1) Plan/Scope Component 3D
 - 5.2) Quantification Component 3D
 - 6) Task #6 Building 3E
 - 6.1) Plan/Scope Component 3E
 - 6.2) Quantification Component 3E
 - 7) Task #7 Component 3J
 - 7.1) Plan/Scope Component 3J
 - 7.2) Quantification Component 3J
 - 8) Task #8 Component 3K

- 8.1) Plan/Scope Component 3K
- 8.2) Quantification Component 3K
- 9) Task #9 Building 39A
 - 9.1) Plan/Scope Building 39A
 - 9.2) Quantification Building 39A
- 10) Task #10 Component 22E
 - 10.1) Plan/Scope Component 22E
 - 10.2) Quantification Component 22E
- 11) Task #11 Demobilization
 - 11.1) Plan/Scope Demobilization
 - 11.2) Quantification Demobilization
- 1.5.3 BFDDS D&D Subcontract General Sump
 - 1) Task #1 Premobilization
 - 1.1) Plan/Scope Premobilization
 - 1.2) Quantification Premobilization
 - 2) Task #2 Mobilization
 - 2.1) Plan/Scope Mobilization
 - 2.2) Quantification Mobilization
 - 3) Task #3 Building 2B
 - 3.1) Plan/Scope Building 2B
 - 3.2) Quantification Building 2B
 - 4) Task #4 Building 2C
 - 4.1) Plan/Scope Building 2C
 - 4.2) Quantification Building 2C
 - 5) Task #5 Component 3H
 - 5.1) Plan/Scope Component 3H
 - 5.2) Quantification Component 3H
 - 6) Task #6 Building 18B
 - 6.1) Plan/Scope Component 18B
 - 6.2) Quantification Component 18B
 - 7) Task #7 Component 18D
 - 7.1) Plan/Scope Component 18D
 - 7.2) Quantification Component 18D
 - 8) Task #8 Component 18H
 - 8.1) Plan/Scope Component 18H
 - 8.2) Quantification Component 18H
 - 9) Task #9 Building 3A
 - 9.1) Plan/Scope Building 3A
 - 9.2) Quantification Building 3A
 - 10) Task #10 Building 3L
 - 10.1) Plan/Scope Building 3L
 - 10.2) Quantification Building 3L
 - 11) Task #11 Miscellaneous Pipe and Pipe Racks
 - 11.1) Plan/Scope Building 3L
 - 11.2) Quantification Building 3L
 - 12) Task #12 Demobilization

- 12.1) Plan/Scope Demobilization
- 12.2) Quantification Demobilization
- 1.5.4 BFDD8 D&D Subcontract Plant 8
 - 1) Task #1 Premobilization
 - 1.1) Plan/Scope Premobilization
 - 1.2) Quantification Premobilization
 - 2) Task #2 Mobilization
 - 2.1) Plan/Scope Mobilization
 - 2.2) Quantification Mobilization
 - 3) Task #3 Building 8A
 - 3.1) Plan/Scope Building 8A
 - 3.2) Quantification Building 8A
 - 4) Task #4 Building 8B
 - 4.1) Plan/Scope Building 8B
 - 4.2) Quantification Building 8B
 - 5) Task #5 Building 8C
 - 5.1) Plan/Scope Building 8C
 - 5.2) Quantification Building 8C
 - 6) Task #6 Building 8D
 - 6.1) Plan/Scope Building 8D
 - 6.2) Quantification Building 8D
 - 7) Task #7 Building 8E
 - 7.1) Plan/Scope Building 8E
 - 7.2) Quantification Building 8E
 - 8) Task #8 Building 8G
 - 8.1) Plan/Scope Building 8G
 - 8.2) Quantification Building 8G
 - 9) Task #9 Building 8H
 - 9.1) Plan/Scope Building 8H
 - 9.2) Quantification Building 8H
 - 10) Task #10 Demobilization
 - 10.1) Plan/Scope Demobilization
 - 10.2) Quantification Demobilization
- 1.5.5 GFDDH D&D Subcontract Health and Safety Building
 - 1) Task #1 Premobilization
 - 1.1) Plan/Scope Premobilization
 - 1.2) Quantification Premobilization
 - 2) Task #2 Mobilization
 - 2.1) Plan/Scope Mobilization
 - 2.2) Quantification Mobilization
 - 3) Task #3 Building 53A
 - 3.1) Plan/Scope Building 53A
 - 3.2) Quantification Building 53A
 - 4) Task #4 Demobilization
 - 4.1) Plan/Scope Demobilization
 - 4.2) Quantification Demobilization

- 1.5.6 BFDDQ D&D Subcontract Liquid Storage
 - 1) Task #1 Premobilization
 - 1.1) Plan/Scope Premobilization
 - 1.2) Quantification Premobilization
 - 2) Task #2 Mobilization
 - 2.1) Plan/Scope Mobilization
 - 2.2) Quantification Mobilization
 - 3) Task #3 Building 26A
 - 3.1) Plan/Scope Building 26A
 - 3.2) Quantification Building 26A
 - 4) Task #4 Component 26B
 - 4.1) Plan/Scope Component 26B
 - 4.2) Quantification Component 26B
 - 5) Task #5 Building 28D
 - 5.1) Plan/Scope Building 28D
 - 5.2) Quantification Building 28D
 - 6) Task #6 Building 45A
 - 6.1) Plan/Scope Building 45A
 - 6.2) Quantification Building 45A
 - 7) Task #7 Building 80
 - 7.1) Plan/Scope Building 80
 - 7.2) Quantification Building 80
 - 8) Task #8 Demobilization
 - 8.1) Plan/Scope Demobilization
 - 8.2) Quantification Demobilization
- 1.5.7 BFDDP D&D Subcontract Pilot Plant
 - 1) Task #1 Premobilization
 - 1.1) Plan/Scope Premobilization
 - 1.2) Quantification Premobilization
 - 2) Task #2 Mobilization
 - 2.1) Plan/Scope Mobilization
 - 2.2) Quantification Mobilization
 - 3) Task #3 Building 13A
 - 3.1) Plan/Scope Building 13A
 - 3.1) Quantification Building 13A
 - 4) Task #4 Component 13B
 - 4.1) Plan/Scope Component 13B
 - 4.2) Quantification Component 13B
 - 5) Task #5 Building 13C
 - 5.1) Plan/Scope Building 13C
 - 5.2) Quantification Building 13C
 - 6) Task #6 Component 13D
 - 6.1) Plan/Scope Component 13D
 - 6.2) Quantification Component 13D
 - 7) Task #7 Building 37
 - 7.1) Plan/Scope Building 37

- 7.2) Quantification Building 37
- 8) Task #8 Building 54A
 - 8.1) Plan/Scope Building 54A
 - 8.2) Quantification Building 54A
- 9) Task #9 Building 54B
 - 9.1) Plan/Scope Building 54B
 - 9.2) Quantification Building 54B
- 10) Task #10 Building 54C
 - 10.1) Plan/Scope Building 54C
 - 10.2) Quantification Building 54C
- 11) Task #11 Demobilization
 - 11.1) Plan/Scope Demobilization
 - 11.2) Quantification Demobilization
- 1.5.8 BFDDB D&D Subcontract Laboratory
 - 1) Task #1 Premobilization
 - 1.1) Plan/Scope Premobilization
 - 1.2) Quantification Premobilization
 - 2) Task #2 Mobilization
 - 2.1) Plan/Scope Mobilization
 - 2.2) Quantification Mobilization
 - 3) Task #3 Building 15A
 - 3.1) Plan/Scope Building 15A
 - 3.2) Quantification Building 15A
 - 4) Task #4 Building 15B
 - 4.1) Plan/Scope Building 15B
 - 4.2) Quantification Building 15B
 - 5) Task #5 Building 15C
 - 5.1) Plan/Scope Building 15C
 - 5.2) Quantification Building 15C
 - 6) Task #6 Demobilization
 - 6.1) Plan/Scope Demobilization
 - 6.2) Quantification Demobilization
- 1.5.9 BFDDA D&D Subcontract Administration (Includes Electrical Complex)
 - 1) Task #1 Premobilization
 - 1.1) Plan/Scope Premobilization
 - 1.2) Quantification Premobilization
 - 2) Task #2 Mobilization
 - 2.1) Plan/Scope Mobilization
 - 2.2) Quantification Mobilization
 - 3) Task #3 Building 11
 - 3.1) Plan/Scope Building 11
 - 3.2) Quantification Building 11
 - 4) Task #4 Building 14A
 - 4.1) Plan/Scope Building 14A
 - 4.2) Quantification Building 14A

- 5) Task #5 - Building 14B Plan/Scope - Building 14B 5.1) 5.2) Quantification - Building 14B 6) Task #6 - Component 20K 6.1) Plan/Scope - Component 20K 6.2)Quantification - Component 20K 7) Task #7 - Building 53B 7.1) Plan/Scope - Building 53B 7.2) Quantification - Building 53B 8) Task #8 - Building 46 8.1) Plan/Scope - Building 46 8.2) Quantification - Building 46 9) Task #9 - Building 31A 9.1) Plan/Scope - Building 31A 9.2) Quantification - Building 31A 10) Task #10 - Demobilization 10.1) Plan/Scope - Demobilization 10.2) Quantification - Demobilization 1.5.10 BFDDE - D&D Subcontract - East Warehouse Task #1 - Premobilization 1) 1.1) Plan/Scope - Premobilization 1.2) Quantification - Premobilization 2) Task #2 - Mobilization 2.1) Plan/Scope - Mobilization 2.2) Quantification - Mobilization 3) Task #3 - Component 20D 3.1) Plan/Scope - Component 20D 3.2) Quantification - Component 20D Task #4 - Building 77 4) Plan/Scope - Building 77 4.1) 4.2) Quantification - Building 77 5) Task #5 - Building 79 5.1) Plan/Scope - Building 79 5.2) Quantification - Building 79 6) Task #6 - Building 82A 6.1) Plan/Scope - Building 82A 6.2)Quantification - Building 82A 7) Task #7 - Demobilization 7.1) Plan/Scope - Demobilization 7.2) Quantification - Demobilization 1.5.11 BFDDM - D&D Subcontract - Miscellaneous 1) Task #1 - Component 5F (Plant 5 Covered Storage Pad)

 - 2) Task #2 - Component 12E (Maintenance Storage Shed)
 - 3) Task #3 - Component 12F (Maintenance Storage Shed)
 - 4) Task #4 - Building 12G (Restored Area Maintenance Building)
 - 5) Task #5 - Component 16B (Electrical Substation)

- 6) Task #6 Component 16C (Electrical Panels & Transformer)
- 7) Task #7 Component 16F (Trailer Substation #1)
- 8) Task #8 Component 16G (Trailer Substation #2)
- 9) Task #9 Component 20E (Well House #1)
- 10) Task #10 Component 20F (Well House #2)
- 11) Task #11 Component 20G (Well House #3)
- 12) Task #12 Component 22B (Storm Sewer Lift Station)
- 13) Task #13 Component 22D (Scale House and Weigh Scale)
- 14) Task #14 Component 23 (Meteorological Tower)
- 15) Task #15 Component 25C (Sewer Lift Station Building)
- 16) Task #16 Component 26C (Main Electrical Substation Riser/Strainer House)
- 17) Task #17 Building 28E (Guard Post at OSDF South Entrance)
- 18) Task #18 Building 28G (Guard Post NW of Building 45)
- 19) Task #19 Building 28H (Guard Post South of K-65 Area)
- 20) Task #20 Building 28J (Security Checkpoint South Access Road)
- 21) Task #21 Building 28K (Security Checkpoint East Parking Lot)
- 22) Task #22 Building 28L (Guard Post N. Construction Access Road)
- 23) Task #23 Building 28M (Guard Post on "F" Street)
- 24) Task #24 Building 30D (Sampling Line Processing)
- 25) Task #25 Building 50 (Maintenance Storage Building
- 26) Task #26 Building 52A (RTRAK Building)
- 27) Task #27 Building 52B (ASTD SCEP Buildling)
- 28) Task #28 Building 60 (Quonset Hut #1)
- 29) Task #29 Building 61 (Quonset Hut #2)
- 30) Task #30 Building 62 (Quonset Hut #3)
- 31) Task #31 Building 68 (Pilot Plant Warehouse)
- 32) Task #32 Building 93A (Southwest Boiler House)
- 33) Task #33 Component G-008 (Pipe Bridges)
- 34) Task #34 Building TS-08 (Environmental Monitoring Equipment Storage)
- 35) Task #35 Trailer T1 (FF)
- 36) Task #36 Trailer T2 (Rad Safety)
- 37) Task #37 Trailer T3 (Wise Construction)
- 38) Task #38 Trailer T4 (Multimedia Visual Storage)
- 39) Task #39 Trailer T5 (FF Construction)
- 40) Task #40 Trailer T6 (Restrooms)
- 41) Task #41 Trailer T7 (FF)
- 42) Task #42 Trailer T8 (Wise Construction)
- 43) Task #43 Trailer 12 (CRU4-DLS)
- 44) Task #44 Trailer T17 (FF)
- 45) Task #45 Trailer T18 (Break Trailer)
- 46) Task #46 Trailer T19 (Rad Safety)

- 47) Task #47 - Trailer T23 (10 Plex) Task #48 - Trailer T24 (7 Plex - North) 48) 49) Task #49 - Trailer T25 (7 Plex - South) Task #50 - Trailer T26 (Waste Management) 50) 51) Task #51 - Trailer T29 (Computer) 52) Task #52 - Trailer T30 (Computer) Task #53 - Trailer T33 (Shipping Office) 53) 54) Task #54 - Trailer T34 (FF) 55) Task #55 - Trailer T35 (FF) 56) Task #56 – Trailer T36 (Heavy Equipment Operators) 57) Task #57 - Trailer T40 (Thorium Overpack) 58) Task #58 - Trailer T41 (Waste Certification - QA) 59) Task #59 - Trailer T42 (Respirator Washing Facility) 60) Task #60 - Trailer T43 (Restoration) 61) Task #61 - Trailer T44 (FF Maintenance) 62) Task #62 - Trailer T45 (Environmental Monitoring) 63) Task #63 - Trailer T46 (Environmental Monitoring) 64) Task #64 - Trailer T49 (Bio-Assay Semi-Trailer) 65) Task #65 - Trailer T40 (Rad Safety) 66) Task #66 - Trailer T57 (Rad Safety) Task #67 - Trailer T58 (Construction Office) 67) Task #68 - Trailer T59 (FF Waste Management) 68) 69) Task #69 - Trailer T60 (Environmental Monitoring) 70) Task #70 - Trailer T61 (Startup Group) 71) Task #71 - Trailer T62 (Startup Group) 72) Task #72 - Trailer T65 (Plant 1 Pad MC&A Office) 73) Task #73 - Trailer T66 (RIMIA Tri-Plex) 74) Task #74 - Trailer T67 (Rad. Tech.) 75) Task #75 - Trailer T68 (CRU1 Office) 76) Task #76 - Trailer T69 (Control Point - RIMIA) 77) Task #77 - Trailer T71 (Safe Shutdown) Task #78 – Trailer T72 (Safe Shutdown) 78) 79) Task #79 - Trailer T74 (ARASA Changeout Facility) 80) Task #80 - Trailer T75 (Multimedia Services) 81) Task #81 - Trailer T82 (Capital Project) 82) Task #82 - Trailer T83 (Capital Project) 83) Task #83 - Trailer T84 (Capital Project) 84) Task #84 - Trailer T85 (Capital Project) 85) Task #85 - Trailer T86 (Capital Project) 86) Task #86 - Trailer T87 (Capital Project) Task #87 - Trailer T89 (WPA Men's Changeout) 87) 88) Task #88 - Trailer T90 (WPA Women's Changeout)
- 90) Task #90 Trailer T92 (WPA Breakroom)
- 91) Task #91 Trailer T93 (Radiation Control Unit Quad)

Task #89 - Trailer T91 (WPA Men's Changeout)

92) Task #92 - Trailer T94 (Radiation Control Unit Quad)

891

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Task #93 - Trailer T95 (Radiation Control Unit Quad)
93)
94)
      Task #94 - Trailer T96 (Radiation Control)
95)
      Task #95 - Trailer T97 (FF Office - CRU4)
96)
      Task #96 - Trailer T98 (OSDF)
97)
      Task #97 - Trailer T100 (FF Office)
      Task #98 - Trailer T103 (Storage)
98)
99)
      Task #99 - Trailer T108 (IAWWTF)
100)
      Task #100 - Trailer T109 (IAWWTF)
101)
      Task #101 - Trailer T117 (CRU4 Construction Support Office)
102)
      Task #102 - Trailer T118 (CRU4 Support Office)
103)
      Task #103 - Trailer T119 (Restrooms)
      Task #104 - Trailer T121 (FF Office)
104)
105)
      Task #105 - Trailer T122 (Storage)
106)
      Task #106 - Trailer T127 (OEPA - Part of T68)
107)
      Task #107 - Trailer T128 (Mixed Waste)
108)
      Task #108 - Trailer T129 (OEPA - Part of T68)
109)
      Task #109 - Trailer T130 (Breakroom)
110)
      Task #110 - Trailer T131 (Breakroom)
111)
      Task #111 - Trailer T132 (Kelchner Office)
112)
      Task #112 - Trailer T135 (Boiler Maintenance)
113)
      Task #113 - Trailer T138 (Southern Waste Unit Site Prep.
      Group)
114)
      Task #114 - Trailer T139 (Southern Waste Unit Site Prep.
      Group)
115)
      Task #115 - Trailer T141 (Maintenance Storage)
116)
      Task #116 - Trailer T142 (Maintenance Storage)
117)
      Task #117 - Trailer T164 (FF Training)
118)
      Task #118 - Trailer T165 (FF Training)
119)
      Task #119 - Trailer T166 (Industrial Relations)
120)
      Task #120 - Trailer T167 (Industrial Relations)
121)
      Task #121 - Trailer T168 (ARASA Contractor)
122)
      Task #122 - Trailer T169 (ARASA Contractor)
123)
      Task #123 - Trailer T170 (ARASA Contractor)
124)
      Task #124 - Trailer T171 (ARASA Contractor)
125)
      Task #125 - Trailer T172 (FCNDP)
126)
      Task #126 - Trailer T173 (FCNDP)
127)
      Task #127 - Trailer T173 (FCNDP)
128)
      Task #128 - Trailer T175 (FCNDP)
129)
      Task #129 - Trailer T176 (FCNDP)
130)
      Task #130 - Trailer T177 (FCNDP)
131)
     Task #131 - Trailer T178 (FCNDP)
      Task #132 - Trailer T179 (FCNDP)
132)
133)
      Task #133 - Trailer T181 (FF Office)
134)
      Task #134 - Trailer T182 (FF Office)
      Task #135 - Trailer T183 (FF Office)
135)
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Task #136 - Trailer T186 (OSDF Office Trailer)

136)

- 137) Task #137 Trailer T191 (Breakroom/Cooldown)
- 138) Task #138 Trailer T301 (IT Corp.)
- 139) Task #139 Trailer T305 (Environmental Monitoring)
- 140) Task #140 Trailer T306 (Environmental Monitoring)
- 141) Task #141 Trailer T312 (Cell 1 Personal Cool Down)
- 142) Task #142 Trailer T313 (ARASA Admin. Office "A")
- 143) Task #143 Trailer T314 (ARASA Admin, Office "B")
- 144) Task #144 Trailer T315 (ARASA Laboratory Office)
- 145) Task #145 Trailer T316 (ARASA Laboratory "A")
- 146) Task #146 Trailer T317 (ARASA Laboratory "B")
- 147) Task #147 Trailer T318 (ARASA MHB/RCLO Pow. Mod. Bldq.)
- 148) Task #148 Trailer T319 (ARASA Breakroom)
- 149) Task #149 Trailer T320 (ARASA Laundry/Resp. Wash Facility)
- 150) Task #150 Trailer T321 (ARASA MHB Rad. Cont. Trailer)
- 151) Task #151 Trailer T322 (ARASA Supervisor's Office)
- 152) Task #152 Trailer T323 (ARASA Control Room)
- 153) Task #153 Trailer T325 (ARASA GCS/WTS Pow. Mod. Bldg.)
- 154) Task #154 Trailer T326 (ARASA Cont. Emissions Mon. Tr.)
- 155) Task #155 Trailer T327 (Weigh Scale Ticket Office)
- 156) Task #156 Trailer T330 (Doffing Trailer)
- 157) Task #157 Trailer T502 (IT Corp. ARASA)
- 158) Task #158 Trailer T505 (Facilities Shutdown Break Trailer)
- 159) Task #159 Trailer T506 (Office)
- 160) Task #160 Trailer T512 (Break M. Ravenscraft)
- 161) Task #161 Trailer T513 (Construction Coordinators)
- 162) Task #162 Trailer T514 (Construction Conference Room)
- 163) Task #163 Trailer T520 (S&W Office)
- 164) Task #164 Trailer T529 (Storage)
- 165) Task #165 Trailer T540 (Triplex Porter Breakroom)
- 166) Task #166 Trailer T603 (Storage Semi-Trailer)
- 167) Task #167 Trailer T604 (Maintenance Storage Semi Trailer)
- 168) Task #168 Trailer T608 (Break Trailer Waste Management)
- 169) Task #169 Building 24C Locomotive Engine House/Repair and Truck Washing Facility
- 170) Task #170 Railroad Track
- 1.5.12 BFDDN D&D Subcontract Building 64/65
 - 1) Task #1 Premobilization Building 64/65
 - 1.1) Plan/Scope Premobilization
 - 1.2) Quantification Premobilization
 - 2) Task #2 Mobilization
 - 2.1) Plan/Scope Mobilization
 - 2.2) Quantification Mobilization

3) Task #3 - Building 64 (Thorium Warehouse) 3.1) Plan/Scope - Building 64 (Thorium Warehouse) 3.2) Quantification - Building 64 (Thorium Warehouse) 4) Task #4 - Building 65 (Old Plant 5 Warehouse) Plan/Scope - Building 65 (Old Plant 5 Warehouse) 4.1) 4.2) Quantification - Building 65 (Old Plant 5 Warehouse) 5) Task #5 - Demobilization 5.1) Plan/Scope - Demobilization 5.2) Quantification - Demobilization 1.5.13 BFDD1 - D&D Subcontract - Plant 1, Phase II 1) Task #1 - Premobilization 1.1) Plan/Scope - Premobilization 1.2) Quantification - Premobilization 2) Task #2 - Mobilization 2.1) Plan/Scope - Mobilization 2.2) Quantification - Mobilization 3) Task #3 - Building 1B 3.1) Plan/Scope - Building 1B 3.2) Quantification - Building 1B 4) Task #4 - Building 20A 4.1) Plan/Scope - Building 20A 4.2) Quantification - Building 20A 5) Task #5 - Building 30A 5.1) Plan/Scope - Building 30A 5.2) Quantification - Building 30A 6) Task #6 - Building 56A 6.1) Plan/Scope - Building 56A 6.2) Quantification - Building 56A 7) Task #7 - Building 71 7.1) Plan/Scope - Building 71 7.2) Quantification - Building 71 8) Task #8 - Component TS-04, TS-05, TS-06 8.1) Plan/Scope - Component TS-04, TS-05, TS-06 8.2) Quantification - Component TS-04, TS-05, TS-06 9) Task #9 - Component 16N 9.1) Plan/Scope - Component 16N 9.2) Quantification - Components 16N 10) Task #10 - Demobilization 10.1) Plan/Scope - Demobilization 10.2) Quantification - Demobilization 1.5.14 BFDD5 - D&D Subcontract - Plant 5 1) Task #1 - Premobilization 1.1) Plan/Scope - Premobilization 1.2) Quantification - Premobilization 2) Task #2 - Mobilization

Plan/Scope - Mobilization

2.1)

- 2.2) Quantification Mobilization
- 3) Task #3 Building 5A
 - 3.1) Plan/Scope Building 5A
 - 3.2) Quantification Building 5A
- 4) Task #4 Component 5D
 - 4.1) Plan/Scope Component 5D
 - 4.2) Quantification Component 5D
- 5) Task #5 Demobilization
 - 5.1) Plan/Scope Demobilization
 - 5.2) Quantification Demobilization

1.5.15 BFDD6 - D&D Subcontract - Plant 6

- 1) Task #1 Premobilization
 - 1.1) Plan/Scope Premobilization
 - 1.2) Quantification Premobilization
- 2) Task #2 Mobilization
 - 2.1) Plan/Scope Mobilization
 - 2.2) Quantification Mobilization
- 3) Task #3 Building 6A
 - 3.1) Plan/Scope Building 6A
 - 3.2) Quantification Building 6A
- 4) Task #4 Building 6B
 - 4.1) Plan/Scope Building 6B
 - 4.2) Quantification Building 6B
- 5) Task #5 Building 6C
 - 5.1) Plan/Scope Building 6C
 - 5.2) Quantification Building 6C
- 6) Task #6 Building 6D
 - 6.1) Plan/Scope Building 6D
 - 6.2) Quantification Building 6D
- 7) Task #7 Building 6E
 - 7.1) Plan/Scope Building 6E
 - 7.2) Quantification Building 6E
- 8) Task #8 Building 6F
 - 8.1) Plan/Scope Building 6F
 - 8.2) Quantification Building 6F
- 9) Task #9 Building 6G
 - 9.1) Plan/Scope Building 6G
 - 9.2) Quantification Building 6G
- 10) Task #10 Demobilization
 - 10.1) Plan/Scope Demobilization
 - 10.2) Quantification Demobilization

Section 4: BDFW - Off-site Debris Disposal D&D

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.3 Drivers
 - 1.4 Project Physical Description
 - 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 Task #1 BDFW1 Administration Complex Off-Site Debris Disposal
 - 1) Plan/Scope Administration Complex Off-Site Debris
 - 2) Quantification Administration Complex Off-Site Debris
 - 1.5.2 Task #2 BDFW2 Electrical Complex Off-Site Debris Disposal
 - 1) Plan/Scope Electrical Complex Off-Site Debris Disposal
 - 2) Quantification Electrical Complex Off-Site Debris Disposal
 - 1.5.3 Task #3 BDFW3 General Sump Complex Off-Site Debris Disposal
 - 1) Plan/Scope General Sump Complex Off-Site Debris Disposal
 - Quantification General Sump Complex Off-Site Debris Disposal
 - 1.5.4 Task #4 BDFW4 Plant 1 Phase II Complex Off-Site Debris Disposal
 - 1) Plan/Scope Plant 1 Phase II Complex Off-Site Debris Disposal
 - 2) Quantification Plant 1 Phase II Complex Off-Site Debris Disposal
 - 1.5.5 Task #5 BDFW5 Plant 2 Complex Off-Site Debris Disposal
 - 1) Plan/Scope Plant 2 Complex Off Site Debris Disposal
 - 2) Quantification Plant 2 Complex Off Site Debris Disposal
 - 1.5.6 Task #6 BDFW6 Plant 3 Complex Off-Site Debris Disposal
 - 1) Plan/Scope Plant 3 Complex Off-Site Debris Disposal
 - 2) Quantification Plant 3 Complex Off-Site Debris Disposal
 - 1.5.7 Task #7 BDFW7 Plant 8 Complex Off-Site Debris Disposal
 - 1) Plan/Scope Plant 8 Complex Off-Site Debris Disposal
 - 2) Quantification Plant 8 Complex Off-Site Debris Disposal
 - 1.5.8 Task #8 BDFW8 Liquid Storage Complex Off-Site Debris Disposal
 - 1) Plan/Scope Liquid Storage Complex Off-Site Debris Disposal
 - 2) Quantification Liquid Storage Complex Off-Site Debris Disposal
 - 1.5.9 Task #9 BDFW9 Laboratory Complex Off-Site Debris Disposal
 - 1) Plan/Scope Laboratory Complex Off-Site Debris Disposal
 - 2) Quantification Laboratory Complex Off-Site Debris Disposal
 - 1.5.10 Task #10 BDFWA Pilot Plant Complex Off-Site Debris Disposal
 - 1) Plan/Scope Pilot Plant Complex Off-Site Debris Disposal
 - 2) Quantification Pilot Plant Complex Off-Site Debris Disposal

PBS-02, DEMOLITION AND DECONTAMINATION
CLOSURE PLAN BASIS OF ESTIMATE
2503-PL-0010, Revision 1
September 2001

- 1.5.11 Task #11 BDFWB East Warehouse Complex Off-Site Debris Disposal
 - Plan/Scope East Warehouse Complex Off-Site Debris Disposal
 - 2) Quantification East Warehouse Complex Off-Site Debris Disposal

WBS DICTIONARY CONTROL ACCOUNT/CHARGE NUMBER

U.S. DEPARTMENT OF ENERGY WORK BREAKDOWN STRUCTURE DICTIONARY PART II - ELEMENT DEFINITION

PROJECT TITLE	2. DATE OF CONTRACT	
FEMP (DEFENSE)	12/01/2000	
3. IDENTIFICATION NUMBER		4. INDEX LINE NO.
DE-AC24-010H20115		8
5. WBS ELEMENT CODE	6. WBS ELEMENT TITLE	
1.1.B	PBS 02 FACILITY D&D	
7. APPROVED CP NO.		8. DATE OF CHANGES
NEW PER CP# FY01-0115-0002-00		08/14/2001
9. SYSTEM DESIGN DESCRIPTION	10. BUDGET AND REPORTING NUMBER	
CERCLA / ACA	EW05H3020	

11. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor Material Subcontracts

b. TECHNICAL CONTENT:

Includes activities associated with the above-grade decontamination and dismantlement (D&D) of site structures which is to be performed in accordance with the Operable Unit 3 (OU3) Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes management oversight, planning, procurement, field preparation, construction management, utility redistribution, utility isolation, D&D subcontract(s), above-grade debris management, and project closeout activities.

The following above-grade D&D projects are established within WBS element 1.1.B:

- -1.1.B.A Project Management
- -1.1.B.B Facility Isolation and Utility Redistribution
- -1.1.B.C D&D Projects
- -1.1.B.D Offsite Debris Disposal

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U.S. DEPARTMENT OF ENERGY WORK BREAKDOWN STRUCTURE DICTIONARY PART II - ELEMENT DEFINITION

PROJECT TITLE	2. DATE OF CONTRACT		
	2. 2/12/3/ 33/11/33/		
FEMP (DEFENSE)	10/01/0000		
FEMP (DEFENSE)	12/01/2000		
3. IDENTIFICATION NUMBER		4. INDEX LINE NO.	
DE-AC24-010H20115		9	
5. WBS ELEMENT CODE	C MOO ELEMENT TITLE		
J. WB3 ELEMENT CODE	6. WBS ELEMENT TITLE		
1.1.B.A	MANAGEMENT		
7. APPROVED CP NO.		8. DATE OF CHANGES	
NEW PER CP# FY01-0115-0002-00		08/14/2001	
		08/14/2001	
9. SYSTEM DESIGN DESCRIPTION	10. BUDGET AND REPORTING NUMBER		
CERCLA / ACA	EW05H3020		
11 FLEMENT TASK DESCRIPTION			

a. ELEMENTS OF COST:

Labor Materials Subcontracts ODCs

b. TECHNICAL CONTENT:

This element provides management to Facility D&D activities.

c. SCOPE OF WORK:

The scope of Management includes the following:

- Providing overall project management and strategic planning for removal/remedial actions.
- Developing a variety of program-level plans and strategies for D&D actions in integration with other site projects. These activities include: evaluation of D&D performed to determine actuals (hours expended per task, waste packaged, schedule durations, etc.) and to identify optimal approaches; modifying estimates of future D&D activities based on these actuals; scheduling of D&D activities around funding scenarios and inter-project integration; development of D&D contract strategies and contracting tools; and development of D&D project scopes.
- Evaluating D&D options and work performance to optimize future planning.
- Maintaining critical programmatic interfaces with Waste Minimization and Recycling, Technical Integration, and Technology Programs.
- Coordinating plant operations and maintenance, waste handling, and common support services associated with the FDP Project Management and Remediation Planning activities.
- Ensuring timely award of subcontracts and purchases to accomplish D&D and ensuring that contracts meet government regulations and that their scope and

U.S. DEPARTMENT OF ENERGY WORK BREAKDOWN STRUCTURE DICTIONARY PART II - ELEMENT DEFINITION

PROJECT TITLE	2 DATE OF CONTRACT			
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7. APPROVED CP NO.		8. DATE OF CHANGES		
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CERCLA / ACA	EW05H3020	Į.		
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11. ELEMENT TASK DESCRIPTION

terms support the objectives of the FDP remedial effort.

- Ensuring that cost and schedule requirements are defined, planned, and monitored against an integrated baseline so that performance can be measured consistent with overall commitments and budgets.
- Providing program over-site of CERCLA related activities including approval of CERCLA documents.
- Developing and obtaining U.S. EPA approval on the OU3 Final Remedial Action Report
- Finalize OU3 Administrative Record Post-ROD file and archive related historical information.
- Planning and Procurement includes all planning and procurement activities performed prior to contract award, including Title I/II engineering, document development, estimating, scheduling, data gathering, field surveys and supplemental sampling that supports project planning.
- Construction Management includes all field activities associated with construction management, support contractors and materials from contract award through completion of field activities.
- Project Closeout includes all project closeout activities occurring after completion of field activities. This includes the development of the project completion report and cost account closeout.

Onsite Debris Disposal includes:

- delivery of empty containers to the queue area;
- debris categorization oversight and debris/container inspection;
- transportation of containers (once filled) to either interim storage or OSDF transfer area;
- dumping of containerized debris into bulk interim storage (if suitable).
- treatment of mixed waste to meet OSDF waste acceptance criteria;
- certification/manifesting for on-site disposal;
- return of empty containers from the OSDF transfer area.

This work also includes ancillary activities to accomplish the main functions, including stakeholder involvement, document publication, participation in on-site and off-site meetings with DOE and site regulators, and preparation of responses to questions and comments regarding the D&D and waste disposition planning process. Utilization of teaming partner companies and subcontractors is possible to fulfill this scope. The scope also includes travel for attendance at off-site meetings and conferences relevant to this activity area and/or supporting staff growth.

WORK SCOPE DEFINITION (Control Account)					
1. PROJECT TITLE		2. DATE			
FEMP (DEFENSE)	12/01/2000 Page				
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	. WBS ELEMENT TITLE/NAME			
1.1.B.A	MANAGEMENT				
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHON	NE	7. WBS ELEMENT MANAGER		
48	J.M. STEVENS/	J.M. STEVENS			
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE				
EW05H3020	FACILITY D&D				
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE		
CHANGE PER CP# FY01-0115-0001-00 12/00 - 01/09			12/00 - 01/09		
12. TASK IDENTIFICATION (CONTROL ACCOUNT)	13. TASK DESCRIPTION (ONE LINE)				
BFDP	PBS 02 PROJEC	T MANAGEMENT			

a. ELEMENTS OF COST:

Labor Material ODC's Subcontracts

b. TECHNICAL CONTENT:

This element provides management to Facility D&D activities.

c. SCOPE OF WORK:

The scope of Management includes the following:

- Providing overall project management and strategic planning for removal/remedial actions.
- Developing a variety of program-level plans and strategies for D&D actions in integration with other site projects. These activities include: evaluation of D&D performed to determine actuals (hours expended per task, waste packaged, schedule durations, etc.) and to identify optimal approaches; modifying estimates of future D&D activities based on these actuals; scheduling of D&D activities around funding scenarios and inter-project integration; development of D&D contract strategies and contracting tools; and development of D&D project scopes.
- Evaluating D&D options and work performance to optimize future planning.
- Maintaining critical programmatic interfaces with Waste Minimization and Recycling, Technical Integration, and Technology Programs.
- Coordinating plant operations and maintenance, waste handling, and common support services associated with the FDP Project Management and Remediation

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WORK SCOPE DEFINITION (Control Account)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		12/01/2000	Page 2	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAME			
1.1.B.A	MANAGEMENT			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE 7. WBS ELEMENT MANAGER			
48	J.M. STEVENS/5187 J.M. STEVENS			
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE			
CHANGE PER CP# FY01-0115-0001-00 12/00 - 01/09				
12. TASK IDENTIFICATION (CONTROL ACCOUNT)	13. TASK DESCRIPTION (ONE	LINE)		
BFDP	PBS 02 PROJEC	T MANAGEMENT		

Planning activities.

- Ensuring timely award of subcontracts and purchases to accomplish D&D and ensuring that contracts meet government regulations and that their scope and terms support the objectives of the FDP remedial effort.
- Ensuring that cost and schedule requirements are defined, planned, and monitored against an integrated baseline so that performance can be measured consistent with overall commitments and budgets.
- Providing program over-site of CERCLA related activities including approval of CERCLA documents.
- Developing and obtaining U.S. EPA approval on the OU3 Final Remedial Action Report
- Finalize OU3 Administrative Record Post-ROD file and archive related historical information.
- Planning and Procurement includes all planning and procurement activities performed prior to contract award, including Title I/II engineering, document development, estimating, scheduling, data gathering, field surveys and supplemental sampling that supports project planning.
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Onsite Debris Disposal includes:

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- transportation of containers (once filled) to either interim storage or OSDF transfer area;
- dumping of containerized debris into bulk interim storage (if suitable).
- treatment of mixed waste to meet OSDF waste acceptance criteria;
- certification/manifesting for on-site disposal;
- return of empty containers from the OSDF transfer area.

This work also includes ancillary activities to accomplish the main functions, including stakeholder involvement, document publication, participation in

WORK SCOPE DEFINITION (Control Account)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE) 12/01/2000 Page				
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAME			
1.1.B.A	Management			
5. PERFORMING DIV/DEPARTMENT CODE	ORIGINATOR NAME/PHONE 7. WBS ELEMENT MANAGER			
48	J.M. STEVENS/5187 J.M. STEVENS			
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE	
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12. TASK IDENTIFICATION (CONTROL ACCOUNT)	13. TASK DESCRIPTION (ONE LINE)			
BFDP	PBS 02 PROJEC	PBS 02 PROJECT MANAGEMENT		

on-site and off-site meetings with DOE and site regulators, and preparation of responses to questions and comments regarding the D&D and waste disposition planning process. Utilization of teaming partner companies and subcontractors is possible to fulfill this scope. The scope also includes travel for attendance at off-site meetings and conferences relevant to this activity area and/or supporting staff growth.

d. WORK SPECIFICALLY EXCLUDED:

- Utility Redistribution and Facility Isolation
- D&D Subcontractor
- Off-Site Debris Disposal

WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		12/01/2000	Page 1	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAME			
1.1.B.A	MANAGEMENT			
5. PERFORMING DIV/DEPARTMENT CODE	ORIGINATOR NAME/PHONE 7. WBS ELEMENT MANAGER			
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8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE	
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12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE	E LINE)		
BFDP1	PROJECT MANAG	EMENT		

a. ELEMENTS OF COST:

Labor Materials Subcontracts ODC's

b. TECHNICAL CONTENT:

Facility D&D Project Management establishes and maintains a project team responsible for providing program level and strategic planning for the decontamination and dismantlement (D&D) of site structures, utility redistribution, facility isolation, and the disposition of D&D generated waste debris in accordance with Operable Unit 3 (OU3) Integrated Remedial Design/Remedial Action (RD/RA) Work Plan.

c. SCOPE OF WORK:

This is the management account for project level and strategic planning for the D&D of site structures:

PLANT 1 -Phase II 1B Plant 1 Storage Shelter 16N Plant 1 Substation 20A Pump Station & Power Center 30A Chemical Warehouse 56A CP Storage Warehouse General In-Process Warehouse 71 TS-04 Tension Support Structure # 4 TS-05 Tension Support Structure

Project Manager

Control Account Manager

Control Team Manager

Rodery Waitupes.

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1. PROJECT TITLE		2. DATE	<u>T</u>
FEMP (DEFENSE)		12/01/2000	Page 2
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8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
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10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NE			11. ESTIMATED START / COMPLETION DATE
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12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE	E LINE)	
BFDP1	PROJECT MANAG	EMENT	
14. ELEMENT TASK DESCRIPTION			
TS-06 Tension Support	Structure # 6		
2D Metal Dissolver 2F Cold Side Ore Co 2H Conveyor Tunnel PLANT 3 COMPLEX 3B Ozone Bldg. 3C NAR Control Hous 3D NAR Towers 3E Hot Raffinate Bl 3J Combined Raffina 3K Old Cooling Wate 39A Incinerator Bldg 22E Utility Trench to PLANT 5 COMPLEX 5A Metals Production 5D West Derby Break	(From Plant 1) e dg. te Tanks r Tower . o Pit Area		
PLANT 6 COMPLEX 6A Metals Fabricati 6G Plant 6 Sump Bld PLANT 8 COMPLEX			
8A Recovery Plant 8B Plant 8 Maintena 8C Rotary Kiln/Drum 8D Plant 8 Railroad 8E Drum Conveyer Sh 8G Trash Compactor 8H Soil Washing Bui	Reconditioning E Filter Bldg. elter Area	Bldg.	
HEALTH & SAFETY STRUCTURE 53A Health & Safety	Building		

WORK SCOPE DEFINITION (Work Package)							
PROJECT TITLE			2. DATE				
FEMP (DEFENS	SE)		12/01/2000		Page 3		
3. WBS ELEMENT CODE		4. WBS ELEMENT TITLE/NA	ME				
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48		J.M.STEVENS/5	187	J.M. STEVENS			
8. BUDGET AND REPORT	TING NUMBER	9. BUDGET TITLE					
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12. TASK IDENTIFICATION	(WORK PACKAGE)	13. TASK DESCRIPTION (ONI	E LINE)				
BFDP1		PROJECT MANAG	EMENT				
11	Clevated Potable Sinished Products Clant 6 Warehouse CIMIA P COMPLEX Eneral/Refinery Soulk Lime Handling Caintenance Bldg. efinery Sump lectrical Power C	eator Set coling Towers cage ilding torage Tank Warehouse (4A) ump Control Blo	lg.				
18D B 18H B LABORATORY (15A L 15B L 15C L LIQUID STORM 26A P 26B E	aboratory Buildin aboratory Chemica aboratory Garage	ment Facility g l Storage re Protection ater Tank					

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1. PROJECT TITLE			2. DATE		
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5. PERFORMING DIV	//DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE		7. WBS ELEMENT MANAGER
48		J.M.STEVENS/5	5187		J.M. STEVENS
8. BUDGET AND REP	PORTING NUMBER	9. BUDGET TITLE			
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10. ORIGINAL SCOPE	? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?			11. ESTIMATED START / COMPLETION DATE
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13A 13B 13C 13D 37 54A 54B 54C MISCELLANI Railroad 5 5F 12E 12F 12G 16B 16C 16F 16G 20E 20F	Thorium Warehouse Old Plant 5 Wareho NT COMPLEX Pilot Plant Wet Si Pilot Plant Mainte Sump Pump House Pilot Plant Thoriu Pilot Plant Annex 6 to 4 Reduction F Pilot Plant Shelte Pilot Plant Dissoc EOUS STRUCTURES Fracks, Phase I Ra Plant 5 Covered St Maintenance Labore Maintenance Labore Restored Area Main Electrical Substat Electrical Panels Trailer Substation Trailer Substation Well House #1 Well House #2	de enance Bldg. m Tank Farm acility er/Warehouse elator Shelter ilroad Tracks, orage Pad r Storage Bldg. r Storage Bldg. tenance Bldg. ion & Transformer #1			
20G 22B 22D 23 24C 25C 26C 28E 28G 28H	Well House #3 Storm Sewer Lift S Scale House & Weigh Meteorological Town Locomotive Maintens Sewage Lift Station Main Elect. Substan Guard Post at OSDF Guard Post NW of Bi Guard Post South of	h Scale er ance Building n Bldg. tion Riser/Stra South Entrance ldg. 45 (T327)			

			E DEFINITION Package)		
1. PROJECT TITLE			2. DATE	T	
FEMP (DEFI	ense)		12/01/2000		Page 5
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1.1.B.A		MANAGEMENT			
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48 8. BUDGET AND REF	PORTING NUMBER	J.M. STEVENS/5 9. BUDGET TITLE	187	J.M. STEVENS	
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28K 28L 28M 30D 50 52A 52B 60 61 62 68 93A G-008 T1 T2 T3 T4 T5 T6 T7 T18 T19 T23 T24 T25 T26 T29 T30 T30 T30 T30 T30 T30 T30 T30	Security Checkpoint Guard Post (N. Control Guard Post on "F" Sampling Line Prod Maintenance Storag RTRAK Building ASTD SCEP Building Quonset Hut # 1 Quonset Hut # 2 Quonset Hut # 3 Pilot Plant Wareho Southwest Boiler H Pipe Bridges Environ. Monitor. FDF Rad Safety Wise Construction FDF Training FDF Construction Restrooms FDF Wise Construction CRU4 (DLS) FDF Break Trailer Rad Safety 10 Plex 7 Plex North 7 Plex South Waste Management Computer Computer Shipping Office	ast. Access Rd) Street sessing se Building suse	=)		

 	WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE			2. DATE	1	
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48		J.M.STEVENS/5	187	J.M. STEVENS	
8. BUDGET AND RE	PORTING NUMBER	9. BUDGET TITLE			
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12. TASK IDENTIFICA	ATION (WORK PACKAGE)	13. TASK DESCRIPTION (ON	E LINE)		
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14. ELEMENT TASK (
T40	Thorium Overpack	(07)			
T41	Waste Certification				
T42 T43	Respirator Washing Facility				
T44	Restoration FDF Maintenance				
T45	Environmental Monitoring				
T46	Environmental Monitoring Environmental Monitoring				
T49	Bio-Assay Semi-Trailer				
T 50	Rad Safety				
T 57	Rad Safety				
T58	Construction Offic				•
T59	FDF Waste Manageme	ent			
T60	DOE Field Office				
T61	Startup Group				
T62 T65	Startup Group Plant 1 Pad MC&A 0	efi ao			
T66	RIMIA Tri-Plex	TITCE			
T67	Rad. Tech.				
T68	CRU1 Office				
T 69	Control Point - RI	MIA			
T71	Safe Shutdown				
T72	Safe Shutdown				
T74	ARASA Changeout Fa	-			
T75	Multimedia Services				
T82 T83	Capital Project				
T84	Capital Project Capital Project				
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### SCOPE PER CP #FY01-0115-0002-00 10. ORIGINAL SCOPE? (CHANGE TO WORK SCOPE? INEW SCOPE? **SUDGET AND REPORTING NUMBER** **SUDGET AND REPORT NUMBER** **SUDG	WBS ELEMENT C	ODE	4. WBS ELEMENT TITLE/NA	ME		
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NEW SCOPE PER CP #FY01-0115-0002-00 2 TASKIDENTIFICATION (MORK PACKAGE) BEDP1 PROJECT MANAGEMENT 13 TASK DESCRIPTION (ONE LINE) PROJECT MANAGEMENT 16 ELEMENT TASK DESCRIPTION 1796 Radiation Control 1797 1796 1700	W05H3020		FACILITY D&D			
### Task Description (WORK PACKAGE) 13. TASK DESCRIPTION	ORIGINAL SCOPE	? / CHANGE TO WORK SCOPE? / NEW	SCOPE?		11. ESTIMATED START / COMPLETION DATE	
### Task Description (WORK PACKAGE) 13. TASK DESCRIPTION	EW SCOPE	PER CP #FY01-0115-	0002-00		12/00 - 01/09	
T96 Radiation Control T97 FDF Office (CRU4) T98 OSDF T100 FDF Office T103 Storage T108 IAWWTF T117 CRU4 Construction Support Office T118 CRU4 Support Office T119 Restrooms T121 FDF Office T122 Storage T122 Storage T128 Mixed Waste T129 OEPA (Part of T68) T130 Breakroom T131 Breakroom T131 Breakroom T131 Breakroom T132 Kelchner Office T135 Boiler Maintenance T136 Southern Waste Unit Site Prep. Grp T141 Maintenance Storage T142 Maintenance Storage T144 FDF Training T155 FDF Training T166 Industrial Relations T167 Industrial Relations T168 ARASA Contractor T169 ARASA Contractor T169 ARASA Contractor				E LINE)		
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T177 FCNDP					•	
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WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE			2. DATE	T
FEMP (DEF	ENSE)		12/01/2000	Page 8
3. WBS ELEMENT (CODE	4. WBS ELEMENT TITLE/NA	ME	
1.1.B.A		MANAGEMENT		
5. PERFORMING D	IV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER
48		J.M. STEVENS/5	51.87	J.M. STEVENS
8. BUDGET AND RE	EPORTING NUMBER	9. BUDGET TITLE	,10,	U.H. SIEVENS
EW05H3020	PE? / CHANGE TO WORK SCOPE? / NEW	FACILITY D&D		Las sermantes error security and the
IU. ORIGINAL SCOP	E?/ CHANGE TO WORK SCOPE?/ NEW	SCOPE?		11. ESTIMATED START / COMPLETION DATE
NEW SCOPE	PER CP #FY01-0115-	0002-00		12/00 - 01/09
12. TASK IDENTIFIC	ATION (WORK PACKAGE)	13. TASK DESCRIPTION (ON	E LINE)	
BFDP1		PROJECT MANAG	EMENT	
14. ELEMENT TASK	DESCRIPTION			
T 178	FCNDP			
T 179	FCNDP			
T181	FDF Office			
T182	FDF Office			
T183	FDF Office			
T186	OSDF Office Trail			
T191 T301	Breakroom/Cooldow	m.		
T305	IT Corp. Environmental Mon	itorina		
T306	Environmental Mon			
T312	Cell 1 Personal C	_		
T313	ARASA Admin. Offi			
T314	ARASA Admin. Offi			
T315	ARASA Laboratory	Office		
T316	ARASA Laboratory	"A"		
T317	ARASA Laboratory			
T318	ARASA MHB/RCLO Po	w. Mod. Bld		
T319	ARASA Breakroom			
T320	ARASA Laun./Resp.	_		
T321 T322	ARASA MHB Rad. Co ARASA Supervisor'			
T323	ARASA Control Room			
T325	ARASA GCS/WTS Pow			
T326	ARASA Cont. Emiss			•
T327	Weigh Scale Ticke			
T330	Doffing Trailer			
T 502	IT Corp. ARASA			
T505	Facilities Shutdo	wn Break Trailer	•	
T506	Office			
T512		Break-M. Ravenscraft		
T513	Construction Coord	-		
T514 T520	Construction (Cons	rerence koom)		
T529	Storage			
T540	-	Breakroom		
	Triplex - Porter Breakroom			
T603	Storage - Semi Trailer Maintenance Storage Semi Trailer			

WORK SCOPE DEFINITION (Work Package)				
PROJECT TITLE			2. DATE	1
FEMP (DEFI	TXCT \		12/01/2000	Page 9
3. WBS ELEMENT C		4. WBS ELEMENT TITLE/NA		1490 2
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1.1.B.A 5. PERFORMING DIV	V/DEPARTMENT CODE	MANAGEMENT 6. ORIGINATOR NAME/PHOP	NF	7. WBS ELEMENT MANAGER
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48		J.M.STEVENS/5	187	J.M. STEVENS
8. BUDGET AND RE	PORTING NUMBER	9. BUDGET TITLE		
EW05H3020		FACILITY D&D		
10. ORIGINAL SCOPE	E? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE
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BFDP1	· · · · · · · · · · · · · · · · · · ·	PROJECT MANAG	EMENT	
14. ELEMENT TASK				
Т608	Break Trailer - Wa	aste Management		
SOILS PRO	OJECT (NOT IN D&D SC	OPE OF WORK)		
18A	BDN Surge Lagoon			
18C	Coal Pile Runoff F			
18E	Storm Water Retent	tion Basins		
18W	S.W.U. Retention B	3asin		
20J	Lime Slurry Pits			
21A	Haul Road Wheel Wa	-		
21B	OSDF Wheel Wash Fa	acility		
22C	Truck Scale	_		
22G	Main Gate Truck So			
24D	Railroad Inspection	on Pit		
31B	Old Truck Scale			
74A	Plt. 2 East Pad			
74B	Plt. 2 West Pad			
74C	Plt. 8 East Pad			
74D	Plt. 8 West Pad			
74E	Plt. 4 Pad			
74F	Plt. 7 Pad Plt. 5 East Pad			
74G	Plt. 5 East Pad Plt. 5 South Pad			
74H 74J	Plt. 5 South Pad Plant 6 Pads			
745 74K	Plant o Pads Plt. 9 Pad			
74L 74M	Bldg. 65 West Pad Bldg. 64 East Pad	C Pailword Dool	_	
74M 74N	_		•	
74N 74P	-	Building 12 North Pad		
74 <u>0</u>		Decontamination Pad Plt. 8 Old Metal Dissolver Pad		
74R	Plt. 8 North Pad	TOOTAGE FOR		
74S	Bldg. 63 West Pad			
74T	Plt. 1 Storage Pad	l		
74U	Pilot Plant Pad	•		
74V	Laboratory Pad			
74W	Bldg. 39A Pad			
82B	Fuel Loading/Unloa	ding Facility -	- Gas Bov	
89	Parking Lots		0	
				

WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITL	E		2. DATE	
FEMP (DE	FENSE)		12/01/2000	Page 10
3. WBS ELEMENT	CODE	4. WBS ELEMENT TITLE/NA	ME	
1.1.B.A		MANAGEMENT		
5. PERFORMING	DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER
48		J.M.STEVENS/5	187	J.M. STEVENS
8. BUDGET AND F	REPORTING NUMBER	9. BUDGET TITLE		5.111 512 12NS
EW05H3020)	FACILITY D&D		
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	E PER CP #FY01-0115- CATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONI	= LINE)	12/00 - 01/09
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BFDP1		PROJECT MANAG	EMENT	
14. ELEMENT TASK	KDESCRIPTION K-65 Storage Tan			
18F 18G 18N 18X 88 91A 91B 91C 91D 91E 91F 91F	K-65 Storage Tan RTS Building Metal Oxide Stor Metal Oxide Stor CRU4 Vitrificati TS PROJECT (NOT IN Pit #5 Sluice Ga Clearwell Pump H Waste Pit Area S OU1 Remediation Clearwell Line Gas Clean. Sys./ Material Handlin Railcar Loadout Railcar Prep. & I Maintenance Build Warehouse Truck Wash Pump I Geo-Lab	age Tank (North) age Tank (South) on Pilot Plant D&D SCOPE OF WOR te ouse torm Water Runoff Swm Pond Water Treat. Sys. g Building (RCLO) Liner Storage ding House	E Control	
	SURE STRUCTURES (NO		F WORK)	
16A 16D	Main Electrical S			
16E		Main Electrical Switch House Main Electrical Transformers		
16H	10 Plex's North Substation			
16J		10 Plex's South Substation		
16K 18J	Dissolved Oxygen Methanol Tank	racility Substat	lon	
18M	High Nitrate Stor	age Tank		
18P	Dissolved Oxygen	_		
18Q	South Plume Int.		IAWWT Valve Hou	ıse
18R	Outfall Line Pit	O	/a = ==:==	
18S 18T	Recovery Well Sys Public Water Supp			r Ka.)
			as marrey na.)	

WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE			2. DATE	
FEMP (D)	efense)		12/01/2000	Page 11
3. WBS ELEME	NT CODE	4. WBS ELEMENT TITLE/N		1 490 11
1.1.B.A		MANAGEMENT		
5. PERFORMING	DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PH	ONE	7. WBS ELEMENT MANAGER
48		J.M.STEVENS/	5187	J.M. STEVENS
8. BUDGET AND	REPORTING NUMBER	9. BUDGET TITLE		
EW05H302		FACILITY D&D		
10. ORIGINAL SC	OPE? / CHANGE TO WORK SCOPE? /	NEW SCOPE?		11. ESTIMATED START / COMPLETION DATE
NEW SCOE	E PER CP #FY01-011	5-0002-00		12/00 - 01/09
12. TASK IDENTI	FICATION (WORK PACKAGE)	13. TASK DESCRIPTION (O	NE LINE)	11,00 01,00
BFDP1		PROJECT MANA	GEMENT	
14. ELEMENT TA	SK DESCRIPTION			
18U	50K gal. Storag	re Tank		
18V	Southfield Valv	e House		
18 Y	AWWT Ozone Gene	AWWT Ozone Generation Bldg.		
18Z	Sludge Mix Tank			
19B	Pilot Plant Amm	onia Tank Farm/AW	WT Caustic Tank	Storage
22F	Main Gas Meter			-
25J	10 Plexs Sewage			
25K		t. Plant Complex		
26D		Water Booster St	: •	
26E		Water 400K Gal.		
26F		Water Lift Stati	on	
51A	Advanced Wastew	ater Treatment		
51B	Slurry Dewateri			
51C	AWWT Laboratory	Expansion Bldg.		
T 76	SWOC			
T77	SWOC			
T 78	SWOC			
T 79		SWOC		
T80	ERMC			
T81		ERMC		
T114		rol Center (DOE)		
T115	Radiological/Ana	alytical Lab (DOE)	
T116	Organic Lab (DO	E)		
T124	FDF Security			
T180	AWWT Office			

1) D&D Project Management

Facility D&D Project Management consists of the day to day management of all activities associated with the following projects:

- · Administration Complex D&D
- · Electrical Station Complex D&D
- · General Sump Complex D&D
- · Laboratory Complex D&D
- · Health & Safety Building D&D
- · Liquid Storage Complex D&D
- · Plant 1, Phase II Complex D&D

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		12/01/2000	Page 12
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAM	ME	
1.1.B.A	MANAGEMENT		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHON	NE	7. WBS ELEMENT MANAGER
48	J.M.STEVENS/5187		J.M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020 FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE
NEW SCOPE PER CP #FY01-0115-0	002-00		12/00 - 01/09
12. TASK IDENTIFICATION (WORK PACKAGE) 13. TASK DESCRIPTION (ONE LINE)			
BFDP1 PROJECT MANAGEMENT			

- · Plant 2 Complex D&D
- · Plant 3 Complex D&D
- · Plant 8 Complex D&D
- · Plant 5 Complex D&D
- · Plant 6 Complex D&D
- · Pilot Plant Complex D&D
- · East Warehouse Complex D&D
- · OU1 Complex D&D
- · 64/65 Structures
- · Miscellaneous Components D&D
- · Onsite D&D Debris Disposal

Typical Facility D&D Project Management activities include:

- Developing a variety of program-level plans and strategies for D&D actions in integration with other site projects. These activities include:
- Evaluation of D&D performed to determine actuals (hours expended per task, waste packaged, schedule durations, etc.) and to identify optimal approaches;
- · Modifying estimates of future D&D activities based on these actuals;
- Scheduling of D&D activities around funding scenarios and inter-project integration;
- Development of D&D contract strategies and contracting tools; and
- · Development of D&D project scopes.
- · Evaluating D&D options and work performance to optimize future planning.
- · Maintaining critical programmatic interfaces with Waste Minimization and Recycling, Technical Integration, and Technology Programs.
- · Coordinating plant operations and maintenance, waste handling, and common support services associated with the FDP Project Management and Remediation Planning activities.
- Ensuring timely award of subcontracts and purchases to accomplish D&D and ensuring that contracts meet government regulations and that their scope and terms support the objectives of the FDP remedial effort.
- Ensuring that cost and schedule requirements are defined, planned, and monitored against an integrated baseline so that performance can be measured consistent with overall commitments and budgets.
- · Providing program oversight of CERCLA related activities including approval of CERCLA documents.

WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		12/01/2000	Page 13	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME		
1.1.B.A	1.1.B.A MANAGEMENT			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER	
48	J.M.STEVENS/51		j.m. stevens	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020 FACILITY D&D			·	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW	SCOPE?		11. ESTIMATED START / COMPLETION DATE	
NEW SCOPE PER CP #FY01-0115-0002-00			12/00 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE) 13. TASK DESCRIPTION (ONE LINE)		E LINE)		
BFDP1 PROJECT MANAG		EMENT		

- · Developing and obtaining U.S. EPA approval on the OU3 Final Remedial Action Report.
- · Performing ancillary activities to accomplish the main functions, including (but not limited to) stakeholder involvement, document publication, participation in on-site and off-site meetings with DOE and site regulators, and preparation of responses to questions and comments regarding the D&D and waste disposition planning process.

2) Planning and Procurement

Planning consists of the following activities:

- · Develop Scope of Work
- · Develop Schedule
- · Review Facility Shutdown Turnover Package
- · Prepare Estimate
- · Prepare Safety Assessment
- · Prepare Davis Bacon Determination
- · Prepare Real Property Disposition Package
- · Prepare Implementation Plan
- · Develop Performance Specifications
- · Develop RFP
- · Conduct Job Walkthrough
- · Conduct Kick-off Meeting
- · Complete Utility Redistribution
- · Install D&D support facilities
- · Prepare Rad con survey summary
- · Prepare ACM survey summary
- · Prepare PWID
- · Prepare WMP/MSCC and debris quantity
- · Prepare debris generation forecast & container id info
- · Identify stockpile and container queue areas
- · Conduct recycle evaluation
- · Prepare Rad air emissions modeling
- · Identify Air monitoring locations
- · Prepare Photo Book
- · Develop Training requirements matrix
- · Prepare QA Plan

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		12/01/2000	Page 14
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME	
1.1.B.A	MANAGEMENT		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER
48	J.M.STEVENS/5187		J.M. STEVENS
8. BUDGET AND REPORTING NUMBER 9. BUDGET TITLE			
EW05H3020 FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE
NEW SCOPE PER CP #FY01-0115-0	0002-00		12/00 - 01/09
12. TASK IDENTIFICATION (WORK PACKAGE)	ASK IDENTIFICATION (WORK PACKAGE) 13. TASK DESCRIPTION (ONE LINE)		
BFDP1 PROJECT MANAGE		EMENT	

· Obtain Performance Grade

Procurement consists of the following activities:

- · Conduct the Pre-bid tour
- · Conduct the Pre-bid meeting
- · Complete Proposal
- · Receipt of bids
- · Conduct an evaluation of the bids
- · Prepare consent request package
- · Conduct DOE evaluation
- · Obtain DOE consent
- · Award Contract

3) Construction Management

Construction Management consists of the following activities:

- · Contract award
- · Oversight of Contractor
- · Contract Administration
- · Construction Management activities
- · Project Control activities
- · Safety oversight
- · IH oversight
- · Radiological oversight
- · Technology Group interface
- · Laboratory support
- · Engineering support
- · Process hold-up material removal

The following is a list of the primary support services that are centralized in other Fluor Fernald divisions but not budgeted under this plan.

- · WAO activities
- · WGS activities
- · Laundry activities (supplying of laundrable PPEs)
- · Transportation activities
- · Maintenance of Government owned or leased trailers
- · Maintenance of Government Furnished Equipment

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	1
FEMP (DEFENSE)		12/01/2000	Page 15
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME	
1.1.B.A	MANAGEMENT		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER
48	J.M.STEVENS/5187		J.M. STEVENS
BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020 FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE
NEW SCOPE PER CP #FY01-0115-0002-00			12/00 - 01/09
12. TASK IDENTIFICATION (WORK PACKAGE) 13. TASK DESCRIPTION (ONE LINE)			
BFDP1 PROJECT MANAGEMENT			

- · ECDC activities
- · Multimedia Visual Services support

4) Project Closeout

Closure consists of Preparation of the Project Completion Report, Task Order Closeout completion, and Preparation of the Turnover Package.

5) Onsite Waste Disposal

The technical scope includes transferring all D&D generated onsite debris from the D&D construction Zone to the OMTA or directly to the OSDF when operational. This scope includes transportation of all existing and future onsite debris generated by D&D activities that are identified below.

Category A, B, D, E, I2 and I4 onsite debris will be relocated from the D&D construction zones to the OMTA or directly to the OSDF in Roll-Off-Boxes (ROBs) by a ROB transportation truck operated by FAT&LC personnel. The ROB transportation truck will pick-up the filled ROBs, transport them to the OMTA or OSDF and dump the contents and return the empty ROB to the D&D construction zone.

Category H onsite debris will be relocated from the D&D construction zones to the OMTA or directly to the OSDF in Sealand® containers by a forktruck operated by FAT&LC personnel. The forktruck will pick-up the filled Sealand® containers, transport them to the OMTA or OSDF. Empty Sealand® containers will be transferred to the D&D construction zone.

Category G (Transite) onsite debris have been placed on pallets up to 4 foot high stacks and banded together by the D&D contractor. Palletized transite will be placed on a flatbed truck by forktrucks in preparation for relocation from the D&D construction zone or other staging areas to the OMTA or directly to the OSDF. The flatbed truck and forktrucks will be operated by FAT&LC personnel. Empty flatbed trucks will be returned to the D&D construction zone.

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)	·	12/01/2000	Page 16
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME .	
1.1.B.A	Management		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER
48	j.m.stevens/5		J.M. STEVENS
BUDGET AND REPORTING NUMBER 9. BUDGET TITLE			• · · · · · · · · · · · · · · · · · · ·
EW05H3020 FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE
NEW SCOPE PER CP #FY01-0115-0002-00			12/00 - 01/09
12. TASK IDENTIFICATION (WORK PACKAGE) 13. TASK DESCRIPTION (ONE LINE)			
BFDP1 PROJECT MANAG		EMENT	

In the event any of this onsite debris is thorium contaminated, then the onsite debris can be stockpiled outside. This scope includes the maintenance of the stockpiles, which includes the encapsulation of the stockpile two (2) times annually until the debris is placed in the OSDF. The encapsulation would consist of sprayed application of a typical asbestos type encapsulant.

d. WORK SPECIFICALLY EXCLUDED:

- Management of D&D activities associated with OU4 (Silos) related structures and components.
- 2. Management of Utility Redistribution and facility isolation activities associated with OU4 (Silos) related structures and components.
- 3. Management of Onsite and offsite debris disposition activities associated with OU4 (Silos) related structures and components.
- 4. Any activities not associated with D&D management.
- 5. Specifically excluded from the scope of work are facility isolation and utility redistribution, D&D subcontractor, and offsite waste disposition activities associated with specific D&D projects.
- 6. FF G&A.
- 7. OMTA waste handling or general maintenance.
- 8. Burial costs for the OSDF.
- 9. Container purchase scope and budget.
- 10. SSR activities are excluded from the scope of this waste stream.
- 11. Offsite debris disposal scope and budget.
- 12. Size reduction, packaging, movement or staging of debris not specifically associated with D&D projects as described in the D&D Closure Plans.

1. PROJECT TITLE: DEMOLITION AND DECONTAMINATION	2. DATE: 09/10/01	3. PBS#: 02
4. WBS ELEMENT CODE: 1.1.B.A.	5. WBS ELEMENT TITLE PROJECT MANAGE	
6. CAM NAME/ PHONE: MIKE STEVENS/ 5187	7. CAM SIGNATURE:	
8. ORIGINAL/ CHANGE SCOPE/ PER CP#:	9. CONTROL ACCOUNT	: BFDP

SECTION 1: BFDP - PROJECT MANAGEMENT

1.0 NARRATIVE

1.1 OVERVIEW

Facility D&D Project Management establishes and maintains a project team responsible for providing program level and strategic planning for the decontamination and dismantlement (D&D) of site structures, utility redistribution, facility isolation, and the disposition of D&D generated waste debris in accordance with Operable Unit 3 (OU3) Integrated Remedial Design/Remedial Action (RD/RA) Work Plan.

1.2 <u>ASSUMPTIONS/EXCLUSIONS</u>

1.2.1 Assumptions

Project Management

R1-F02-047

 Management of D&D activities throughout performance of closure contract. The scope of work for D&D activities are identified in the individual D&D Closure Plans.

R1-F02-047 Management of Utility Redistribution and Facility Isolation activities throughout performance of closure contract. The scope of work for Utility Redistribution and Facility Isolation activities is identified in the individual D&D Closure Plans.

R1-F02-047

- Management of D&D generated onsite and offsite waste debris disposition activities throughout performance of closure contract. The specifies of onsite and offsite activities are identified in the onsite D&D debris disposal Closure Plan and the offsite D&D debris disposal Closure Plan.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

On-Site Waste Disposal

- Closure Baseline scenario 6 forms the basis for schedules and priorities.
- Onsite debris transfer from the D&D construction zone to the OMTA will be performed by FAT&LC represented personnel.
- Work will be performed in full compliance with the Closure Contract S/RID.
- Funding will be made available to support the baseline as approved.
- Containers will be manufactured and delivered by vendors to support the schedule.
- The OSDF remains a viable disposal site for onsite waste streams as planned.
- Regulatory requirements remain static during the baseline performance period.
- Materials do not require any type of criticality controls.
- None of the wastes incorporated in onsite waste streams require additional formal characterization or sampling for disposition. Existing process knowledge, sampling analysis and visual inspections will fulfill the need for characterization information.
- Material is non-RCRA. Any material subsequently identified to be RCRA would be transferred by change proposal to the D&D offsite debris control account.
- Prohibited articles and wastes that require treatment prior to disposition included in the work package can be effectively dispositioned through other processes included in the closure baseline, such as by utilizing existing planned RCRA treatment contracts.
- OMTA expansions will be accepted by the DOE and/or the Regulatory Agencies as required to accept D&D debris. The OMTA or OSDF will have sufficient resources and capacity to receive and disposition onsite wastes so that no containers are required to be purchased for interim storage.
- FEMP Maintenance will provide budget for replacements and repairs of general use equipment for this work package, such as the OSDF ROB fleet and various vehicles used in the collection and processing of these wastes and containers.
- D&D onsite debris waste generation forecasts for these waste streams are reliable within $\pm 1/-5\%$.
- Weather impacts on loading and shipping operations are typical for the FEMP.

- Necessary equipment is available to support operations.
- Non-residue Legacy Waste asbestos is acceptable for disposal in the OSDF. OMTA or other D&D onsite debris storage costs are not included to stage material until eventual OSDF disposal in FY2004 and 5.
- During normal OSDF placement years, regulated asbestos will be immediately transferred o an identified OSDF transfer area, without the need for prior staging.
- Debris complying with OSDF WAC Attainment Plan requirements can be transferred to identified OSDF Transfer Area(s).
- Delivery of accepted wastes to an area identified by the OSDF Project, as a Transfer Area constitutes completion of work scope under this work package.
- Thorium contaminated, onsite debris can be stockpiled outside. This scope includes
 the maintenance of the stockpiles, which includes the encapsulation of the stockpile
 two (2) times annually until the debris is placed in the OSDF. The encapsulation would
 consist of sprayed application of a typical asbestos type encapsulant.
- Operation of OSDF transfer area(s), associated waste staging costs and waste placement costs are provided in OSDF project budgets.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

1.2.2 Exclusions

Project Management

- Management of D&D activities associated with OU4 (Silos) related structures and components.
- Management of Utility Redistribution and facility isolation activities associated with OU4 (Silos) related structures and components.

R1-F02-050

- Management of Onsite and offsite debris disposition activities associated with OU4 (Silos) related structures and components.
- Any activities not associated with D&D management.
- Specifically excluded from the scope of work are facility isolation and utility redistribution, D&D subcontractor, and offsite waste disposition activities associated with specific D&D projects.

On-Site Waste Disposal

R1-F02-050

- Burial costs fees for the OSDF.
- Container purchase scope and budget.
- SSR activities are excluded from the scope of this waste stream.
- Offsite debris disposal scope and budget.
- Size reduction, packaging, movement or staging of debris not specifically associated with D&D projects as described in the D&D Closure Plans.
- OMTA waste handling or general maintenance.

1.2.3 Government Furnished Equipment/Service

There are no government furnished equipment/services associated with this scope of work.

1.3 DRIVERS

- D&D of all facilities at the FEMP is stipulated in the OU3 Record of Decision for Interim Remedial Action (IROD) (DOE1994a), with final treatment and disposition stipulated in the OU3 Record of Decision for Final Remedial Action (DOE 1996a).
- The OU3 Integrated RD/RA Work Plan (Final, May 1997) established a remediation schedule and an EPA Enforceable Milestone for the initial execution of each D&D Project. Any changes to the Milestones will be modified to meet the site objectives and the EPA notified accordingly.
- Procedure D10-02-009, "Decontamination and Demolition Project Planning"

On-Site Waste Disposal

- Drivers include either events (or activities) that must occur as predecessor or contemporary to the project, as well as significant requirements that must be met in the execution of the project.
- OSDF will return to full operation in FY-2004 and receive all asbestos and debris that meet WAC in a timely manner.
- Closure Contract S/RID
- Operable Unit 3 requirements (decision and implementing documents).
- OSDF WAC Attainment Plan
- DOE 435.1

1.4 PROJECT PHYSICAL DESCRIPTION

This is the management account for program level and strategic planning for the D&D of site structures, utility redistribution, facility isolation, and disposition of D&D generated waste. Table 1.4 identifies all structures, components, and trailers and indicates whether the structure, component, or trailer is part of a D&D Complex, part of another PBS's scope of work, or is a post-closure structure, component, or trailer that will remain beyond this scope of work.

Table 1.4

PLANT 1 -Phase II	
1B	Plant 1 Storage Shelter
16N	Plant 1 Substation
20A	Pump Station & Power Center
30A	Chemical Warehouse
56A	CP Storage Warehouse
71	General In-Process Warehouse
TS-04	Tension Support Structure # 4
TS-05	Tension Support Structure # 5
TS-06	Tension Support Structure # 6
PLANT 2 COMPLEX	
2A	Ore Refinery Plant
2D	Metal Dissolver Bldg.
2F	Cold Side Ore Conveyer
2H	Conveyor Tunnel (From Plant 1)
PLANT 3 COMPLEX	
3B	Ozone Bldg.
3C	NAR Control House

PLANT 3 COMPLEX -	Continued
3D	NAR Towers
3E	Hot Raffinate Bldg.
3J	Combined Raffinate Tanks
3K	Old Cooling Water Tower
39A	Incinerator Bldg.
22E	Utility Trench to Pit Area
PLANT 5 COMPLEX	
5A	Metals Production Plant
5D	West Derby Breakout/Slag Milling
PLANT 6 COMPLEX	
6A	Metals Fabrication Plant
6G	Plant 6 Sump Bldg.
PLANT 8 COMPLEX	
8A	Recovery Plant
8B	Plant 8 Maintenance Bldg.
8C	Rotary Kiln/Drum Reconditioning Bldg.
8D	Plant 8 Railroad Filter Bldg.
8E	Drum Conveyer Shelter
8G	Trash Compactor Area
8H	Soil Washing Building
HEALTH & SAFETY S	
	7
	Health & Safety Building
ADMINISTRATION CO	
11	Services Building
14A	Administration Building
14B	Bldg. 14 EOC Generator Set
53A	Health & Safety Building
53B	INVIVO Bldg.
20K	New Admin. Area Cooling Towers
31A	Vehicle Repair Garage
46	Heavy Equipment Building
EAST WAREHOUSE C	OMPLEX
20D	Elevated Potable Storage Tank
77	Finished Products Warehouse (4A)
79	Plant 6 Warehouse
82A	RIMIA
ELECTRICAL STATION	COMPLEX
	Vehicle Repair Garage
	Heavy Equipment Bldg.
GENERAL SUMP COM	
2B	General/Refinery Sump Control Bldg.
2C	Bulk Lime Handling Bldg.
3A	Maintenance Bldg.
3H	Refinery Sump
3L	Electrical Power Center Bldg.
18B	General Sump

R1-F02-047

R1-F02-047

R1-F02-047

	Ocptember 2001
18D	Biodenitrification Towers
18H	BDN Effluent Treatment Facility
LABORATORY COM	PLEX
15A	Laboratory Building
15B	Laboratory Chemical Storage
15C	Laboratory Garage
LIQUID STORAGE C	OMPLEX
26A	Pump House - HP Fire Protection
26B	Elevated Storage Water Tank
28D	Guard Post on West End of 2nd St.
45A	Maintenance (Former Rust Engr. and Construction Div. Bldg.)
80	Plant 8 Warehouse
64/65 STRUCTURES	
: 64	Thorium Warehouse
65	Old Plant 5 Warehouse
PILOT PLANT COMP	PLEX
13A	Pilot Plant Wet Side
13B	Pilot Plant Maintenance Bldg.
13C	Sump Pump House
13D	Pilot Plant Thorium Tank Farm
37	Pilot Plant Annex
54A	6 to 4 Reduction Facility
54B	Pilot Plant Shelter/Warehouse
54C	Pilot Plant Dissociator Shelter
OU1 COMPLEX	
24C	Locomotive Maintenance Bldg
Railroad Tracks	Railroad Tracks
MISCELLANEOUS ST	
Railroad Tracks	Railroad Tracks
5F	Plant 5 Covered Storage Pad
12E	Maintenance Laborer Storage Bldg.
12F	Maintenance Laborer Storage Bldg.
12G	Restored Area Maintenance Bldg.
16B	Electrical Substation
16C	Electrical Panels & Transformer
16F	Trailer Substation #1
16G	Trailer Substation #2
20E	Well House #1
20F	Well House #2
20G	Well House #3
22B	Storm Sewer Lift Station
22D	Scale House & Weigh Scale
23	Meteorological Tower
24C	Locomotive Maintenance Building
25C	Sewage Lift Station Bldg.
26C	Main Elect. Substation Riser/Strainer House
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R1-F02-047

R1-F02-047

R1-F02-047

28E

MISCELLANEOUS	STRUCTURES - Continued
28G	Guard Post NW of Bldg. 45 (T327)
28H	Guard Post South of K-65 Area
28J	
28K	Security Checkpoint (South Access Rd.)
	Security Checkpoint (E. Park. Lot)
28L	Guard Post (N. Const. Access Rd)
28M	Guard Post on "F" Street
30D	Sampling Line Processing
50	Maintenance Storage Building
52A	RTRAK Building
52B	ASTD SCEP Building
60	Quonset Hut # 1
61	Quonset Hut # 2
62	Quonset Hut # 3
64	Thorium Warehouse
65	Old Plant 5 Warehouse
68	Pilot Plant Warehouse
93A	Southwest Boiler House
G-008	Pipe Bridges
TS-08	Environ. Monitor. Equip. Storage
T1	FDF
T2	Rad Safety
Т3	Wise Construction
T4	FDF Training
T5	FDF Construction
Т6	Restrooms
T7	FDF
Т8	Wise Construction
T12	CRU4 (DLS)
T17	FDF
T18	Break Trailer
T19	Rad Safety
T23	10 Plex
T24	7 Plex North
T25	7 Plex South
T26	Waste Management
T29	Computer
T30	Computer
T33	Shipping Office
T34	FDF
T35	FDF
T36	Heavy Equip. Operators
T40	Thorium Overpack
T41	Waste Certification (QA)
T42	Respirator Washing Facility
T43	Restoration
T44	FDF Maintenance

MISCELLANEOUS ST	FRUCTURES - Continued
T45	Environmental Monitoring
T46	Environmental Monitoring
T49	Bio-Assay Semi-Trailer
T50	Rad Safety
T57	Rad Safety
T58	Construction Office
T59	FDF Waste Management
T60	DOE Field Office
T61	Startup Group
T62	Startup Group
T65	Plant 1 Pad MC&A Office
T66	RIMIA Tri-Plex
T67	Rad. Tech.
T68	CRU1 Office
T69	Control Point – RIMIA
T71	Safe Shutdown
T72	Safe Shutdown
T74	ARASA Changeout Facility
T75	Multimedia Services
T82	Capital Project
T83	Capital Project
T84	Capital Project
T85	Capital Project
T86	Capital Project
T87	Capital Project
T89	WPA Mens Changeout
T90	WPA Womens Changeout
T91	WPA Mens Changeout
T92	WPA Breakroom
T93	Radiation Control Unit Quad
T94	Radiation Control Unit Quad
T95	Radiation Control Unit Quad
T96	Radiation Control
T97	FDF Office (CRU4)
T98	OSDF
T100	FDF Office
T103	Storage
T108	IAWWTF
T109	IAWWTF
T117	CRU4 Construction Support Office
T118	CRU4 Support Office
T119	Restrooms
T121	FDF Office
T122	Storage
T127	OEPA (Part of T68)
T128	Mixed Waste

MISCELLANEOUS ST	RUCTURES - Continued
T129	OEPA (Part of T68)
T130	Breakroom
T131	Breakroom
T132	Kelchner Office
T135	Boiler Maintenance
T138	Southern Waste Unit Site Prep. Grp
T139	Southern Waste Unit Site Prep. Grp
T141	Maintenance Storage
T142	Maintenance Storage
T164	FDF Training
T165	FDF Training
T166	Industrial Relations
T167	Industrial Relations
T168	ARASA Contractor
T169	ARASA Contractor
T170	ARASA Contractor
T171	ARASA Contractor
T172	FCNDP
T173	FCNDP
T174	FCNDP
T175	FCNDP
T176	FCNDP
T177	FCNDP
T178	FCNDP
T179	FCNDP
T181	FDF Office
T182	FDF Office
T183	FDF Office
T186	OSDF Office Trailer
T191	Breakroom/Cooldown
T301	IT Corp.
T305	Environmental Monitoring
T306	Environmental Monitoring
T312	Cell 1 Personal Cool Down
T313	ARASA Admin. Office "A"
T314	ARASA Admin. Office "B"
T315	ARASA Laboratory Office
T316	ARASA Laboratory "A"
T317	ARASA Laboratory "B"
T318	ARASA MHB/RCLO Pow. Mod. Bld
T319	ARASA Breakroom
T320	ARASA Laun./Resp. wash facility
T321	ARASA MHB Rad. Cont. Trailer
T322	ARASA Supervisor's Office
T323	ARASA Control Room
T325	ARASA GCS/WTS Pow. Mod. Bldg

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IN D&D SCOPE OF WORK) – Continued Pilot Plant Pad
Laboratory Pad
Bldg. 39A Pad
Fuel Loading/Unloading Facility - Gas Boy
Parking Lots
K-65 Storage Tank (North)
K-65 Storage Tank (South)
RTS Building
Metal Oxide Storage Tank (North)
Metal Oxide Storage Tank (South)
CRU4 Vitrification Pilot Plant
- The state of the
(NOT IN D&D SCOPE OF WORK)
Pit #5 Sluice Gate
Clearwell Pump House
Waste Pit Area Storm Water Runoff Control
OU1 Remediation Swm Pond
Clearwell Line
Gas Clean. Sys./Water Treat. Sys.
Material Handling Building
Railcar Loadout (RCLO)
Railcar Prep. & Liner Storage
Maintenance Building
Warehouse
Truck Wash Pump House
Geo-Lab
CTURES (NOT IN D&D SCOPE OF WORK)
Main Electrical Station
Main Electrical Switch House
Main Electrical Transformers
10 Plex's North Substation
10 Plex's South Substation
Dissolved Oxygen Facility Substation
Methanol Tank
High Nitrate Storage Tank
Dissolved Oxygen Building
South Plume Int. Treatment Bidg./IAWWT Valve House
Outfall Line Pit
Recovery Well System Control Bldg. (S. of Willey Rd.)
Public Water Supply Meter House (at Willey Rd.)
50K gal. Storage Tank
Southfield Valve House
AWWT Ozone Generation Bldg.
Sludge Mix Tank
Pilot Plant Ammonia Tank Farm/AWWT Caustic Tank Storage

POST CLOSURE STRU	POST CLOSURE STRUCTURES (NOT IN D&D SCOPE OF WORK) - Continued		
22F	Main Gas Meter		
25J	10 Plexs Sewage Lift Station		
25K	New Sewage Treat. Plant Complex		
26D	Domestic & Fire Water Booster St.		
26E	Domestic & Fire Water 400K Gal.		
26F	Domestic & Fire Water Lift Station		
51A	Advanced Wastewater Treatment		
51B	Slurry Dewatering Facility		
51C	AWWT Laboratory Expansion Bldg.		
T76	SWOC		
T77	SWOC		
T78	SWOC		
T79	SWOC		
T80	ERMC		
T81	ERMC		
T114	Operations Control Center (DOE)		
T115	Radiological/Analytical Lab (DOE)		
T116	Organic Lab (DOE)		
T124	FDF Security		
T180	AWWT Office		

1.4.1 BFDP - Project Management

1) Task #1 -D&D Project Management

Facility D&D Project Management consists of the day to day management of all activities associated with the following projects:

- Administration Complex D&D
- Electrical Station Complex D&D
- General Sump Complex D&D
- Laboratory Complex D&D
- Health & Safety Building D&D
- Liquid Storage Complex D&D
- Plant 1, Phase II Complex D&D
- Plant 2 Complex D&D
- Plant 3 Complex D&D
- Plant 8 Complex D&D
- Plant 5 Complex D&D
- Plant 6 Complex D&D
- Pilot Plant Complex D&D
- East Warehouse Complex D&D
- OU1 Complex D&D
- 64/65 Structures
- Miscellaneous Components D&D

R1-F02-047

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R1-F02-047

- Offsite D&D Debris Disposal
- Onsite D&D Debris Disposal

2) Task #2 - Planning and Procurement

Planning

Planning and Procurement includes all planning and procurement activities performed prior to contract award, including Title I/II engineering, document development, estimating, scheduling, data gathering, field surveys and supplemental sampling that supports project planning.

Procurement

Planning and Procurement includes all planning and procurement activities performed prior to contract award, including Title I/II engineering, document development, estimating, scheduling, data gathering, field surveys and supplemental sampling that supports project planning.

3) Task #3 - Construction Management

Construction Management includes all field activities associated with construction management, support contractors and materials from contract award through completion of field activities and removal of hold-up materials that may be encountered by the Contractor during field activities.

4) Task #4 - Project Closeout

Project Closeout includes all project closeout activities occurring after completion of field activities. This includes the development of the project completion report and cost account closeout.

5) Task #5 - On-Site Waste Disposal

This work package provides for the one time transfer of D&D debris to the OSDF Material Transfer Area (OMTA) or directly to the OSDF.

The scope of work includes the movement of containerized or palletized onsite debris from D&D construction zones that have been consolidated into waste stream categories. The categories of onsite debris are as follows:

 Waste Stream Category A – Accessible Metals (Includes both Uranium and Thorium material)

- Waste Stream Category B Inaccessible Metals (Includes both Uranium and Thorium material)
- Waste Stream Category D Lite Gage Metal (Includes both Uranium and Thorium material)
- Waste Stream Category E Concrete (Includes both Uranium and Thorium material)
- Waste Stream Category G Non Regulated (Transite) Asbestos (Includes both Uranium and Thorium material)
- Waste Stream Category H Regulated Asbestos (Includes both Uranium and Thorium material)
- Waste Stream Category I2 Miscellaneous Non-Cellulosic (e.g. PPE, Plastic) (Includes both Uranium and Thorium material)
- Waste Stream Category I4 Miscellaneous Cellulosic (e.g. cardboard, paper, wood) (Includes both Uranium and Thorium material)

1.5 PROJECT PLAN/TECHNICAL SCOPE AND QUANTIFICATION

1.5.1 BFPD1 - D&D Project Management

1) Task #1 - Facility D&D Project Management

1.1) Plan/Scope - Facility D&D Project Management

Facility D&D Project Management consists of the day to day management of all activities associated with the following projects:

- Administration Complex D&D
- Electrical Station Complex D&D
- General Sump Complex D&D
- Laboratory Complex D&D

R1-

F02-047

- Health & Safety Building D&D
- Liquid Storage Complex D&D
- Plant 1, Phase II Complex D&D
- Plant 2 Complex D&D
- Plant 3 Complex D&D
- Plant 8 Complex D&D
- Plant 5 Complex D&D
- Plant 6 Complex D&D
- Pilot Plant Complex D&D
- East Warehouse Complex D&D
- OU1 Complex D&D

R1-F02-047

- 64/65 Structures
- Miscellaneous Components D&D
- Offsite D&D Debris Disposal
- Onsite D&D Debris Disposal

Typical Facility D&D Project Management activities include:

- Developing a variety of program-level plans and strategies for D&D actions in integration with other site projects. These activities include:
- Evaluation of D&D performed to determine actuals (hours expended per task, waste packaged, schedule durations, etc.) and to identify optimal approaches;
- Modifying estimates of future D&D activities based on these actuals;
- Scheduling of D&D activities around funding scenarios and inter-project integration;
- Development of D&D contract strategies and contracting tools; and
- Development of D&D project scopes.
- Evaluating D&D options and work performance to optimize future planning.
- Maintaining critical programmatic interfaces with Waste Minimization and Recycling, Technical Integration, and Technology Programs.
- Coordinating plant operations and maintenance, waste handling, and common support services associated with the FDP Project Management and Remediation Planning activities.
- Ensuring timely award of subcontracts and purchases to accomplish D&D and ensuring that contracts meet government regulations and that their scope and terms support the objectives of the FDP remedial effort.
- Ensuring that cost and schedule requirements are defined, planned, and monitored against an integrated baseline so that performance can be measured consistent with overall commitments and budgets.
- Providing program oversight of CERCLA related activities including approval of CERCLA documents.
- Developing and obtaining U.S. EPA approval on the OU3 Final Remedial Action Report.
- Performing ancillary activities to accomplish the main functions, including (but not limited to) stakeholder involvement, document publication, participation in on-site and

off-site meetings with DOE and site regulators, and preparation of responses to questions and comments regarding the D&D and waste disposition planning process.

1.2) Quantification - Facility D&D Project Management

Facility D&D Project Management manpower is essentially a level of effort over the entire duration of this task through FY06 to correspond with the MACTEC contract. Beginning in FY07 manpower levels will decrease to correspond to the remaining D&D activities. Beginning in FY07, Facility D&D Project Management activities will be integrated with PBS-07 (Silos) and no longer will be budgeted separately. At that time PBS-07 will provide these services for D&D Projects. The duration of Facility D&D Project Management is identified in Section 2.0 and the projectized and matrixed Fluor Fernald personnel are identified in Section 3.0.

Materials, Equipment, and Other Direct Costs (ODCs) for the Facility D&D Project Management Control Account are identified in Table 1. In addition, this Control Account covers all ODCs for all Projects listed in the Plan/Scope Section of 1.5.1.

Table 1
Materials, Equipment and Other Direct Costs

DESCRIPTION	BASIS	COST FOR PROJECT
Office Supplies & Equipment	Miscellaneous	\$ 12,000 / Year / FY-01 through FY-09
Memberships	5 / Year @ \$200 ea.	\$ 1,000 / Year / FY-01 through FY-09
Meetings and Conferences	4 / Year @ \$1,000 ea.	\$ 4,000 / Year / FY-01 through FY-09
Travel	4 / Year @ \$3,000 ea.	\$ 12,000 / Year / FY-01 through FY-09
Relocation	Finance Guidance	\$ 60,000 / Relocation One / Year – FY 02, 03, 04
Registration Fees	5 / Year @ \$500 ea.	\$ 2,500 / Year / FY-01 through FY-09
Training - Annual Refresher	12 / Year @ \$250 ea.	\$ 3,000 / Year / FY-01 through FY-09
Training – Initial	3 / Year @ \$1,500 ea.	\$ 4,500 / Year / FY-01 through FY-09

2) Task #2 - Planning and Procurement

2.1) Plan/Scope - Planning and Procurement

Planning consists of the following activities:

- Develop Scope of Work
- Develop Schedule
- Review Facility Shutdown Turnover Package
- Prepare Estimate

PBS-02, DEMOLITION AND DECONTAMINATION
CLOSURE PLAN BASIS OF ESTIMATE
2503-PL-0010, Revision 1
September 2001

- Prepare Safety Assessment
- Prepare Davis Bacon Determination
- Prepare Real Property Disposition Package
- Prepare Implementation Plan
- Develop Performance Specifications
- Develop RFP
- Conduct Job Walkthrough
- Conduct Kick-off Meeting
- Complete Utility Redistribution
- Install D&D support facilities
- Prepare Rad con survey summary
- Prepare ACM survey summary
- Prepare PWID
- Prepare WMP/MSCC and debris quantity
- Prepare debris generation forecast & container id info
- Identify stockpile and container queue areas
- Conduct recycle evaluation
- Prepare Rad air emissions modeling
- Identify Air monitoring locations
- Prepare Photo Book
- Develop Training requirements matrix
- Prepare QA Plan
- Obtain Performance Grade

Procurement consists of the following activities:

- Conduct the Pre-bid tour
- Conduct the Pre-bid meeting
- Complete Proposal
- Receipt of bids
- Conduct an evaluation of the bids
- Prepare consent request package
- Conduct DOE evaluation
- Obtain DOE consent
- Award Contract

2.2) Quantification – Planning and Procurement

Manpower for Planning and Procurement activities is essentially a level of effort over the entire duration of this task. The duration of Planning and Procurement activities are identified in Section 2.0. Planning and Procurement activities will be conducted by projectized and matrixed Fluor Fernald personnel as identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 1.

Table 1
Materials, Equipment, and Services

DESCRIPTION BASIS		COST FOR PROJECT
Material Miscellaneous Allowance -		\$ 26,000 \$ 2,000
	\$2,000 per 13 remaining projects.	and they have designed to the second
Equipment	None or FEMP owned	\$ O
ODCs	Allotted in Control Account BFDP	\$ 0

3) Task #3 - Construction Management

3.1) Plan/Scope - Construction Management

Construction Management consists of the following activities:

- Contract award
- Oversight of Contractor
- Contract Administration
- Construction Management activities
- Project Control activities
- Safety oversight
- IH oversight
- Radiological oversight
- Technology Group interface
- Laboratory support
- Engineering support
- Process hold-up material removal

The following is a list of the primary support services that are centralized in other Fluor Fernald divisions but not budgeted under this plan.

- WAO activities
- WGS activities
- Laundry activities (supplying of laundrable PPEs)
- Transportation activities
- Maintenance of Government owned or leased trailers
- Maintenance of Government Furnished Equipment
- ECDC activities
- Multimedia Visual Services support

3.2) Quantification - Construction Management

Manpower for Construction Management activities is essentially a level of effort over the entire duration of this task. The duration of Construction Management activities are

identified in Section 2.0. Construction Management activities will be conducted by projectized and matrixed Fluor Fernald personnel as identified in Section 3.0.

ODC's are provided in the Project Management Facility D&D Control Account BFDP. The materials and services that are required to support the D&D Contractor are identified in Table 2:

Table 2
Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT		
Sampling equipment and service	Personnel and area monitoring. 13 projects @ \$3,000 per complex	\$ 39,000		
Sampling Analysis	1259 samples @ \$100 per sample	\$125,900		
Miscellaneous PPE	Construction Management Personnel. 13 projects @ \$1,000 per complex.	\$ 13,000		
Material	\$500 Miscellaneous Allowance per month @ 96 months	\$ 48,000		

4) Task #4 - Project Closeout

4.1) Plan/Scope - Project Closeout

Closure consists of Preparation of the Project Completion Report, Task Order Closeout completion, and Preparation of the Turnover Package.

4.2) Quantification - Project Closeout

Manpower for Project Closeout activities is essentially a level of effort over the entire duration of this task. The duration of Project Closeout activities are identified in Section 2.0. Project Closeout activities will be conducted by projectized and matrixed Fluor Fernald personnel as identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 3.

Table 3
Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT	
Material	Miscellaneous Allowance. 13	\$ 26,000	
	projects @ \$2,000 per complex.		
Equipment	None or FEMP owned	\$ 0	
ODCs	Allotted in Control Account BFDP	\$ 0	

Task #5 - Onsite Waste Disposal

5.1) Plan/Scope - Onsite Waste Disposal

The technical scope includes transferring all D&D generated onsite debris from the D&D construction Zone to the OMTA or directly to the OSDF when operational. This scope includes transportation of all existing and future onsite debris generated by D&D activities that are identified below.

Category A, B, D, E, I2 and I4 onsite debris will be relocated from the D&D construction zones to the OMTA or directly to the OSDF in Roll-Off-Boxes (ROBs) by a ROB transportation truck operated by FAT&LC personnel. The ROB transportation truck will pick-up the filled ROBs, transport them to the OMTA or OSDF and dump the contents and return the empty ROB to the D&D construction zone.

Category H onsite debris will be relocated from the D&D construction zones to the OMTA or directly to the OSDF in Sealand® containers by a Forktruck operated by FAT&LC personnel. The Forktruck will pick-up the filled Sealand® containers, transport them to the OMTA or OSDF. Empty Sealand® containers will be transferred to the D&D construction zone.

Category G (Transite) onsite debris have been placed on pallets in 4 foot high stacks and banded together by the D&D contractor. Palletized transite will be placed on a flatbed truck by forktrucks in preparation for relocation from the D&D construction zone or other staging areas to the OMTA or directly to the OSDF. The flatbed truck and forktrucks will be operated by FAT&LC personnel. Empty flatbed trucks will be returned to the D&D construction zone.

In the event any of this onsite debris is thorium contaminated, then the onsite debris can be stockpiled outside. This scope includes the maintenance of the stockpiles, which includes the encapsulation of the stockpile two (2) times annually until the debris is placed in the OSDF. The encapsulation would consist of sprayed application of a typical asbestos type encapsulant.

5.2) Quantification

Plant 2

The Plant 2 Complex D&D includes the transfer of:

- 848 Roll-Off Boxes;
- 239 pallets; and
- 49 Sealand containers of debris

Complex	Plant 2				
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands
Cat. A	5375.3	145133.1	199.1		
TH-C-Cat A	900	24300	33.3		
Cat. B	12415.5	335218.5	459.8		
TH-C-Cat B	202.5	5467.5	7.5		
Cat. D	0	0	0.0		
Cat. E	913.5	24664.5	60.9		
TH-C-Cat E	450	12150	30.0		
Cat. G	1392.2	37589.4		234.9	
TH-C-Cat G	24	648		4.1	
Cat. H	1135.2	30650.4			31.6
TH-C-Cat H	636	17172			17.7
Cat. 1-2	1027.5	27742.5	38.1		
Cat. 1.4	514.5	13891.5	19.1		
Totals		674,627	848	239	49

Plant 3

The Plant 3 Complex D&D includes the transfer of:

- 477 Roll-Off Boxes;
- 136 pallets; and
- 14 Sealand containers of debris

Complex	Plar	nt 3			
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands
Cat. A	1543	41661	57.1		
TH-C-Cat A	483	13041	17.9		
Cat. B	7620.9	205764.3	282.3		
TH-C-Cat B	183	4941	6.8		
Cat. D	20.6	556.2	0.8		
Cat. E	1460.5	39433.5	97.4		
TH-C-Cat E	111	2997	7.4		
Cat. G	514.8	13899.6		86.9	
TH-C-Cat G	292.5	7897.5		49.4	
Cat. H	408	11016			11.3
TH-C-Cat H	82.8	2235.6			2.3
Cat. 1-2	138	3726	5.1		
Cat. 1.4	63.2	1706.4	2.3		
Totals		348,875	477	136	14

General Sump

The General Sump Complex D&D includes the transfer of:

- 315 Roll-Off Boxes;
- 13 pallets; and
- 23 Sealand containers of debris

Complex	Genera	General Sump					
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands		
Cat. A	1034.7	27936.9	38.3				
TH-C-Cat A	0.0	0	0.0				
Cat. B	6616.5	178645.5	245.1				
TH-C-Cat B	0.0	0	0.0				
Cat. D	76.4	2062.8	2.8				
Cat. E	330.8	8931.6	22.1				
TH-C-Cat E	0.0	0	0.0				
Cat. G	78.0	2106		13.2			
TH-C-Cat G	0.0	0		0.0			
Cat. H	810.4	21880.8			22.5		
TH-C-Cat H	0.0	0	· · · · · · · · · · · · · · · · · · ·		0.0		
Cat. 1-2	93.4	2521.8	3.5				
Cat. 1.4	79.6	2149.2	2.9				
Totals		246,235	315	13	23		

Plant 8

The Plant 8 Complex D&D includes the transfer of:

- 804 Roll-Off Boxes;
- 172 pallets; and
- 10 Sealand containers of debris

Complex	Plar	Plant 8				
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands	
Cat. A	6404.1	172910.7	237.2			
TH-C-Cat A	495	13365	18.3			
Cat. B	8449.3	228131.1	312.9			
TH-C-Cat B	495	13365	18.3			
Cat. D	688.8	18597.6	25.5			
Cat. E	2502.5	67567.5	166.8			
TH-C-Cat E	99	2673	6.6			
Cat. G	509.7	13761.9		86.0		
TH-C-Cat G	509.7	13761.9		86.0	***************************************	
Cat. H	264.8	7149.6			7.4	
TH-C-Cat H	88.8	2397.6			2.5	
Cat. 1-2	243.5	6574.5	9.0			
Cat. 1.4	245.1	6617.7	9.1			
Totals		566,873	804	172	10	

R1-F02-047

Health & Safety Building

The Health & Safety Building D&D includes the transfer of:

- 156 Roll-Off Boxes;
- 0 pallets; and
- O Sealand containers of debris

Complex	Administ	10.0			
Category	Çu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands
Çat. A	666.7	18,000	25	72	
TH-C-Cat A	0.0	0	0.0		
Cat. B	0.0	0	0.0		
TH-C-Cat B	0.0	0	0.0		
Cat. D	807.4	21,800	30		
Cata E	0.0	0	0.0		
TH-C-Cat E	0.0	0	0.0		
Cat. G	0.0	0		0.0	946
TH-C-Cat G	0.0	0		0.0	
Cat: H	0.0	0		4	0.0
TH-C-Cat H	0.0	0			0.0
Cat. 1-2	2725.9	73,600	101		
Cat. 1.4	0.0	0	0		
Totals	4200	113,400	156	0	. 0

Liquid Storage

The Liquid Storage Complex D&D includes the transfer of:

- 165 Roll-Off Boxes;
- 15 pallets; and
- One (1) Sealand container of debris

Complex	Liquid S	Liquid Storage				
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands	
Cat. A	1884.0	50868	69.8		***************************************	
TH-C-Cat A	0.0	0	0.0		V	
Cat. B	2181.0	58887	80.8			
TH-C-Cat B	0.0	0	0.0			
Cat. D	0.0	0	0.0			
Cat. E	0.0	0	0.0			
TH-C-Cat E	0.0	, 0	0.0			
Cat. G	90.0	2430		15.2		
TH-C-Cat G	0.0	0		0.0		
Cat. H	30.0	810			0.8	
TH-C-Cat H	0.0	0			0.0	
Cat. 1-2	310.0	8370	11.5			
Cat. 1.4	85.4	2305.8	3.2			
Totals		123,671	165	15	1	

Pilot Plant

The Pilot Plant Complex D&D includes the transfer of:

- 267 Roll-Off Boxes;
- 18 pallets; and
- One (1) Sealand containers of debris

Complex	Pilot Plant				
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands
Cat. A	605.8	16356.6	22.4		***************************************
TH-C-Cat A	64	1728	2.4		
Cat. B	1905	51435	70.6		
TH-C-Cat B	519	14013	19.2		
Cat. D	1020	27540	37.8		
Cat. E	979	26433	65.3		
TH-C-Cat E	612	16524	40.8		
Cat. G	30.2	815.4		5.1	
TH-C-Cat G	76	2052		12.8	
Cat. H	43.5	1174.5			1.2
TH-C-Cat H	0	0			0.0
Cat. 1-2	115.6	3121.2	4.3		
Cat. 1.4	106.6	2878.2	3.9		
Totals		164,071	267	18	1

Laboratory

The Laboratory Complex D&D includes the transfer of:

- 408 Roll-Off Boxes; and
- 3 pallets;

Complex	Laboratory					
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands	
Cat. A	955.0	25785	35.4			
TH-C-Cat A	0.0	0	0.0			
Cat. B	2785.0	75195	103.1			
TH-C-Cat B	0.0	0	0.0			
Cat. D	0.0	0	0.0			
Cat. E	4000.0	108000	266.7			
TH-C-Cat E	0.0	0	0.0			
Cat. G	20.0	540		3.4		
TH-C-Cat G	0.0	0		0.0		
Cat. H	1.0	27			0.0	
TH-C-Cat H	0.0	0			0.0	
Cat. 1-2	0.2	5.4	0.0			
Cat. 1.4	76.0	2052	2.8			
Totals		211,604	408	3	0	

R1-F02-047

Administration (Includes Electrical Complex)

The Administration Complex D&D includes the transfer of:

- 1,302 Roll-Off Boxes;
- 28 pallets; and
- 5 Sealand containers of debris

Complex	Adminis	tration			
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands
Cat. A	1008.0	27216	37.3		
TH-C-Cat A	0.0	0	0.0		
Cat. B	4467.0	120609	165.4		
TH-C-Cat B	0.0	0	0.0		
Cat. D	2112.0	57024	78.2		
Cat. E	10219.0	275913	681.3		
TH-C-Cat E	0.0	0	0.0		
Cat. G	166.0	4482		28.0	
TH-C-Cat G	0.0	0		0.0	
Cat. H	180.0	4860			5.0
TH-C-Cat H	0.0	0			0.0
Cat. 1-2	9055.0	244485	335.4		
Cat. 1.4	110.0	2970	4.1		
Totals	·	737,559	1,302	28	5

East Warehouse

The East Warehouse Complex D&D includes the transfer of:

- 42 Roll-Off Boxes; and
- One (1) Sealand containers of debris

Complex	East Wa	rehouse			
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands
Cat. A	368.9	9960.3	13.7		
TH-C-Cat A	0.0	0	0.0		
Cat. B	281.2	7592.4	10.4		
TH-C-Cat B	0.0	0	0.0		
Cat. D	222.1	5996.7	8.2		
Cat. E	121.6	3283.2	8.1		
TH-C-Cat E	0.0	0	0.0		
Cat. G	0.0	0		0.0	
TH-C-Cat G	0.0	0		0.0	
Cat. H	29.3	791.1			0.8
TH-C-Cat H	0.0	0			0.0
Cat. 1-2	15.1	407.7	0.6		
Cat. 1.4	33.3	899.1	1.2		
Totals		28,931	42	0	1

Miscellaneous Structures

The Miscellaneous Components D&D include the transfer of:

- 622 Roll-Off Boxes;
- 13 pallets; and
- 38 Sealand containers of debris

R1-D -220

Complex	Miscella	aneous Compo	nents		
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands
Cat. A	3002.8	135076.8	185.1		
TH-C-Cat A	420.0	11340	15.6		
Cat. B	1901.0	51327	70.4		
TH-C-Cat B	810.0	21870	30.0		
Cat. D	1472.4	39755.4	54.5		
Cat. E	165.6	4471.2	11.0		
TH-C-Cat E	420.0	11340	28.0		
Cat. G	76.4	2062.8		12.9	
TH-C-Cat G	0.0	0		0.0	
Cat. H	1364.4	36838.8			37.9
TH-C-Cat H	0.0	0			0.0
Cat. 1-2	1742.9	47058.9	64.5		
Cat. 1.4	4387.8	118475.1	162.3		
Totals		207,509	622	13	38

R1-F02-047

Building 64/65

The Building 64/65 D&D include the transfer of:

- 249 Roll-Off Boxes;
- 13 pallets; and
- 38 Sealand containers of debris

Complex	Miscella	aneous Compo	nents		
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands
Cat. A	2123.4	57331.8	78.6		3.77
TH-C-Cat A	420.0	11340	15.6		
Cat. B	1901.0	51327	70.4		
TH-C-Cat B	810.0	21870	30.0		
Cat. D	32.7	882.9	1.2		100
Cat. E	165.6	4471.2	11.0		100
TH-C-Cat E	420.0	11340	28.0		
Cat. G	76.4	2062.8		12.9	
TH-C-Cat G	0.0	0		0.0	
Cat. H	1364.4	36838.8			37-9
TH-C-Cat H	0.0	0			0.0
Cat: 1-2	303.2	8186.4	11.2	44	- 100 B
Cat. 1:4	68.8	1857.6	2.5	1,77	
Totals		207,509	249	13	38,111

Plant 1, Phase II

The Plant 1, Phase II Complex D&D includes the transfer of:

- 205 Roll-Off Boxes;
- 14 pallets; and
- One (1) Sealand container of debris

Complex	Plant 1 -	Phase II			
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands
Cat. A	2909.0	78543	107.7		
TH-C-Cat A	0.0	0	0.0		
Cat. B	1378.0	37206	51.0		
TH-C-Cat B	0.0	0	0.0		
Cat. D	0.0	0	0.0		*
Cat. E	403.0	10881	26.9		
TH-C-Cat E	0.0	0	0.0		
Cat. G	80.0	2160		13.5	
TH-C-Cat G	0.0	0		0.0	
Cat. H	18.0	486			0.5
TH-C-Cat H	0.0	0			0.0
Cat. 1-2	513.0	13851	19.0		
Cat. 1.4	0.0	0	0.0		
Totals		143,127	205	14	1

Plant 5

The Plant 5 Complex D&D includes the transfer of:

- 357 Roll-Off Boxes; and
- 106 pallets;

Complex	Plar	nt 5			
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands
Cat. A	3807.2	102794.4	. 141.0		
TH-C-Cat A	0	0	0.0		
Cat. B	2506.4	67672.8	92.8		
TH-C-Cat B	0	0	0.0		
Cat. D	1206.3	32570.1	44.7		
Cat. E	1089.9	29427.3	72.7		
TH-C-Cat E	0	0	0.0		
Cat. G	631	17037		106.5	
TH-C-Cat G	0	0		0.0	
Cat. H	0	0			0.0
TH-C-Cat H	0	0			0.0
Cat. 1-2	127	3429	4.7		
Cat. 1.4	32	864	1.2		
Totals		253,795	357	106	0

Plant 6

The Plant 6 Complex D&D includes the transfer of:

- 586 Roll-Off Boxes;
- 120 pallets; and
- 20 Sealand containers of debris

Complex	Plant 6				
Category	Cu. Yd.	Cu. Ft.	# Boxes	# Pallets	# SeaLands
Cat. A	3029	81783	112.2		
TH-C-Cat A	0	0	0.0		
Cat. B	9247.7	249687.9	342.5		
TH-C-Cat B	0	0	0.0		
Cat. D	2291.5	61870.5	84.9		
Cat. E	236.9	6396.3	15.8		
TH-C-Cat E	0	. 0	0.0		
Cat. G	708.5	19129.5		119.6	
TH-C-Cat G	0	0		0.0	
Cat. H	711.6	19213.2			19.8
TH-C-Cat H	0	0			0.0
Cat. 1-2	516	13932	19.1		
Cat. 1.4	302	8154	11.2		
Totals		460,166	586	120	20

Plant 7

The Plant 7 Complex includes the transfer of:

• 5 ROB's of Category I2.

Plant 1 Complex

The Plant 1 Complex includes the transfer of:

82 pallets of transite

This activity is scheduled in FY01.

Plant 4

The Plant 4 Complex includes the transfer of:

• 176 pallets of transite

This activity is scheduled in FY01.

Boiler Plant

The Boiler Plant Complex includes the transfer of:

26 pallets of transite

This activity is scheduled in FY01.

Plant 9

The Plant 9 Complex includes the transfer of:

• 84 pallets of transite

This activity is scheduled in FY01.

Maintenance Tank Farm

The Maintenance/Tank Farm includes the transfer of:

115 pallets of transite

This activity is scheduled in FY01.

Movement of D&D onsite debris will be conducted by Fluor Fernald personnel such as HAZWAT's, Heavy Equipment Operators, General Laborers, Industrial Vacuum Operators and Managerial Supervision. The duration of onsite debris activities is identified in Section 2. These personnel that are matrixed to support the project and estimated FTE's are identified in Section 3.

ODC's are provided in the Project Management Facility D&D Control Account BFDP. The materials, equipment and services that are required to support the onsite debris movement are identified in Table 1:

Table 1 Materials, Equipment and Services

	R1-
	F02-
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	DESCRIPTION	BASIS		C	OST
Misc	c. PPE	WGS personnel. \$1,000 per project.	\$ 21	,000	
Mate	erial	\$5,000 misc allowance per project	·	,000	25.0
Equi	pment	FEMP Owned	\$	0	
ODC	C's	Alloted in Control Account BFDP	\$	0	

	Activity	Early	Early	Piro Biro	
Q	Description	Start	Finish	à	FYOT FYOZ FYO3 FYO4 FYO5 FYOR FYOR FYOR FYO4
PESO	3 [7 68] (12 FACILITY (1840)				
.1.B.A M	1.1.B.A MANAGEMENT				
SFDP1 PB	BFDP1 PBS02 PROJECT / ON-SITE WASTE MANAGEMENT	MANAGE	MENT		
DPJMGM099	BDPJMGM099 Facility D&D - START	04DEC00		0	Facility D&D - START
BDPJMGM100	Facility D&D Project / On-Site Debris Management	04DEC00	11DEC08	1,613	Facility D&D Project / Φ
BDXU5C10M4			16MAY01	0	◆Complete Field Activities (CFA) - Plant 5
BDPPCX12M2	Draft Implementation Plan to EPA - Pilot Plant	25MAY01*		0	◆ Draft Implementation Plan to EPA - Pilot Plant
BDGSPC112M	-	01JUL01*		0	◆ Draft Implementation Plan to EPA - GSP Cmplx.
BDLQS711M2	Draft Implementation Plan to EPA - Liquid Strg.	02JUL01*		0	Draft Implementation Plan to EPA - Liquid Strg.
BDP2C000M2	Draft Implementation Plan to EPA - Plant	0230101		0	Draft Implementation Plan to EPA - Plant 2
BDP3C000M2	Draft Implementation Plan to EPA - Plant	02JUL01		0	◆ Draff Implementation Plan to EPA - Plant 3
BDP8C083M2	Draft Implementation Plan to EPA - Plant 8 Cmplx	02JUL01		0	◆ Draft Implementation Plan to EPA - Plant 8 Cmplx
BDXU5C10M5	Draft Closeout Report To EPAs - Plant 5		15JUL01	0	▼Draft Closeout Report To EPAs - Plant 5
BDGSPC113M	Notice To Proceed - GSP Cmplx.	01OCT01*		0	♦ Notice To Proceed - GSP Cmplx.
врегсооомз	Notice To Proceed - Plant 2 Complex	01OCT01		0	Notice To Proceed - Plant 2 Complex
врезсооомз	Notice To Proceed - Plant 3 Complex	01OCT01		0	♦ Notice To Proceed - Plant 3 Complex
врресовзмз	Notice To Proceed - Plant 8 Complex	01OCT01		0	Notice To Proceed - Plant 8 Complex
JMLTECXM1	BDMLTECXM1 IP - Notice To Proceed - Multi-Cmplx.	07JAN02*		0	♦IP - Notice To Proceed - Multi-Cmplx.
BDXU6100M4	Complete Field Activities (CFA) - Plant 6		24JAN02	0	Complete Field Activities (CFA) - Plant 6
BDEPA5C1M7	IP - Complete Field Activities (CFA) - Plant 5		28JAN02*	0	▼ P - Complete Field Activities (CFA) - Plant 5
BDXU6100M5	Draft Closeout Report To EPAs - Plant 6		25MAR02	0	▼Draft Closeout Report To EPAs - Plant 6
BDLQS7EPA2	Draft Implementation Plan to EPA - Liquid Strg.	28MAR02*		0	▼ Draft Implementation Plan to EPA - Liquid Strg.
BDEPA5C1M9	IP - Draft Closeout Report To EPAs - Plant 5		29MAR02	0	♦ IP - Draft Closeout Report To EPAs - Plant 5
	Start Date Finish Date	01DEC00 BLCF - BD01 11DEC08		FACILITY D&D	Sheet 1 of 3 Date Date Day Bar Date Date Date Date Date Date Date Date
HOR		SEP01 15:19	4	A MAN	Parameter September 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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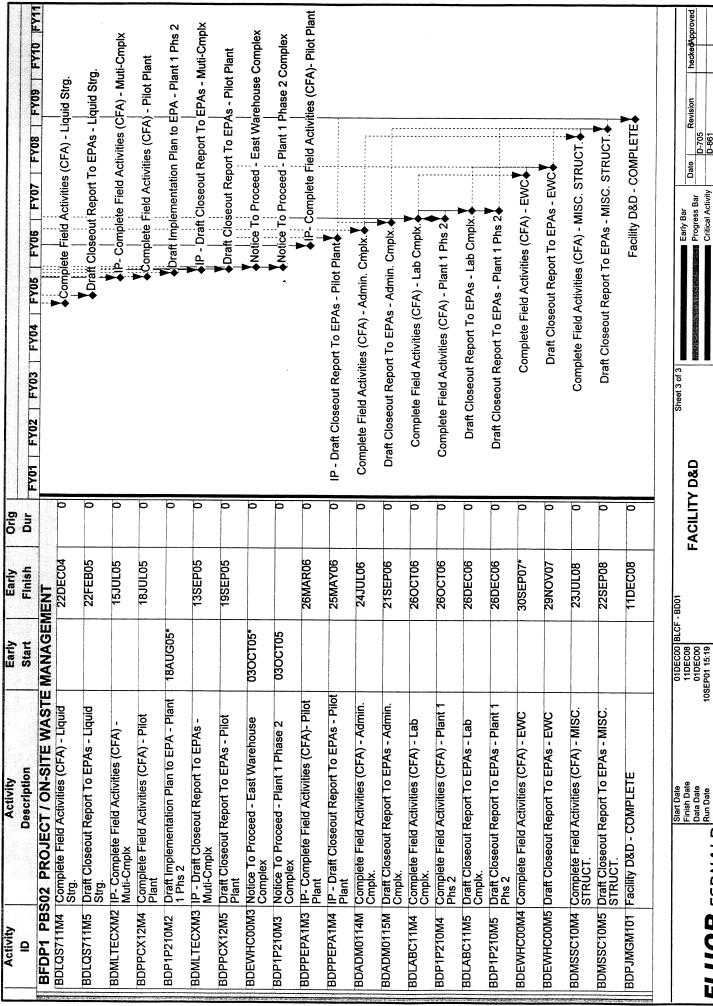
PBS02 PROJECT / ON-SITE WASTE MANAGEMENT	Activity	Activity	Early	Early	Orig	
1		Description	Start	Finish	à	FY02 FY03 FY04 FY05 FY06 FY07 FY08 EVAN
Charle To Part 13 ULL 19 19 19 19 19 19 19	BFDP1 PB	S02 PROJECT / ON-SITE WASTE	E MANAGEN	ÆNT		
Selection Plant to EPA - Admin. Cmpbk. Selection Plant to EPA - Admin. Cmpbk. Selection Plant to EPA - Lab Cmpk. Selection Plant to EPA - Admin. Cmpk.	BDP1P2EPA2	Draft Implementation Plan to EPA - Plant 1 Phs 2	-		0	♦ Draff Implementation Plan to EPA - Plant 1 Phs 2
Second Plan to EPA - Lab	3DADMEPA12		05JUL02*		0	Draft Implementation Plan to EPA - Admin. Cmplx.
Second Storage 010CT02* 02	3DLABCEPA2	Draff Implementation Plan to EPA - Lab Cmplx.	08JUL02*		0	◆Draft Implementation Plan to EPA - Lab Cmplx.
Field Activities (CFA) - Plant 6	3DLQS711M3	Notice To Proceed - Liquid Storage Complex	010CT02*		0	Notice To Proceed - Liquid Storage Complex
Complete Field Activities (CFA) - EWC	3DEPA6C6M7	IP - Complete Field Activities (CFA) - Plant 6		19NOV02*	0	P - Complete Field Activities (CFA) - Plant 6
Pack Plant 3 10DEC02 Plant 3 Plant 4 Plant 5 Plant 6 Plant 5 Plant 6 Plant 6 Plant 8	3DEWHCEPA4	Complete Field Activities (CFA) - EWC		19NOV02*	0	◆Complete Field Activities (CFA) - EWC
18JAN03 19 19 19 19 19 19 19 1	3DP3C000M4	Complete Field Activities (CFA) - Plant 3		10DEC02	0	◆Complete Field Activities (CFA) - Plant 3
10 10 10 10 10 10 10 10	3DEPA6C6M9			18JAN03	0	VIP - Draft Closeout Report To EPAs - Plant 6
Activities (CFA) - Plant 8	IDEWHCEPA5	Draft Closeout Report To EPAs - EWC		18JAN03*	0	◆Draft Closeout Report To EPAs - EWC
Activities (CFA) - Plant 8	DP3C000M5	Draft Closeout Report To EPAs - Plant 3		10FEB03	0	◆Draft Closeout Report To EPAs - Plant 3
Special Plant S	DP8C083M4	Complete Field Activities (CFA) - Plant 8 Cmplx		01JUL03	0	Complete Field Activities (CFA) - Plant 8 Cmplx
Feed - Pilot Plant Complex ♦ Notice To Proceed - Pilot Plant Complex Focesed - Pilot Plant Complex ♦ P. Notice To Proceed - Pilot Plant Complex Activities (CFA) - Plant 2 Activities (CFA) - Plant 2 Activities (CFA) - Plant 2 Activities (CFA) - Plant 2 Activities (CFA) - Plant 2 Activities (CFA) - GSP Activities (CFA) - Plant 2 Activities (CFA) - GSP Activities (CFA) - Plant 2 Activities (CFA) - Plant 2 Activities (CFA) - Plant 2 Activities (CFA) - GSP Activities (CFA) - Plant 2 Activities (CFA) - GSP Activities (CFA) - Plant 2 Activities (CFA) - GSP Cmplx. Activities (CFA) - Plant 2 Activities (CFA) - GSP Cmplx. Activities (CFA) - Plant 2 Activities (CFA) - GSP Cmplx. Activities (CFA) - GSP Activities (CFA) - GSP Cmplx. Activities (CFA) - GSP Activities (CFA) - GSP Cmplx. Activities (CFA) - GSP Activities (CFA) - GSP Cmplx. Activities (CFA) - GSP Activities (CFA) - GSP Cmplx. Activities (CFA) - GSP Activities (CFA) - GSP Cmplx. Activities (CFA) - GSP Activities (CFA) - GSP Cmplx. Activities (CFA) - GSP Activities (CFA) - GSP Cmplx. <td>DP8C083M5</td> <td>Draft Closeout Report To EPAs - Plant 8 Complex</td> <td></td> <td>02SEP03</td> <td>0</td> <td>◆Draff Closeout Report To EPAs - Plant 8 Complex</td>	DP8C083M5	Draft Closeout Report To EPAs - Plant 8 Complex		02SEP03	0	◆Draff Closeout Report To EPAs - Plant 8 Complex
Complex CFA - Plant 29MAR04* 0	DPPCX12M3	Notice To Proceed - Pilot Plant Complex	01OCT03*		0	▼Notice To Proceed - Pilot Plant Complex
Activities (CFA) - Plant 2	DPPEPA1M2	IP - Notice To Proceed - Pilot Plant Complex	29MAR04*		0	▼ P - Notice To Proceed - Pilot Plant Complex
Activities (CFA) - GSP	DP2C000M4	Complete Field Activities (CFA) - Plant 2		11MAY04	0	◆Complete Field Activities (CFA) - Plant 2
Start Date Carport To EPAs - Plant 2 12JUL04	JGSPC114M			27MAY04	0	♦Complete Field Activities (CFA) - GSP Cmplx.
Stant Date 17AUG04* 26JUL04 0 Sheet 2 of 3 Sheet 2 of	DP2C000M5	Draft Closeout Report To EPAs - Plant 2		12JUL04	0	Oraff Closeout Report To EPAs - Plant 2
ation Plan to EPA - 17AUG04* 0	DGSPC115M	Draft Closeout Report To EPAs - GSP Cmplx.		26JUL04	0	◆Draft Closeout Report To EPAs - GSP Cmplx.
station Plan to EPA - Lab	DADM0112M	plementation Plan to EPA Cmplx.	17AUG04*		0	◆Draft Implementation Plan to EPA - Admin. Cmplx.
sed - Admin. Cmplx. Ted - Laboratory Complex Start Date Tibecos Tibecos	DLABC11M2	Draft Implementation Plan to EPA - Lab Cmplx.	17AUG04		0	Draft Implementation Plan to EPA - Lab Cmplx.
Start Date of DECOO BLCF - BD01 FACILITY D&D Sheet 2 of 3 Facing Progress Bar of DECO BLCP - BD01 FACILITY D&D Sheet 2 of 3 Facing Progress Bar of DECO BLCP - BD01 FACILITY D&D Sheet 2 of 3 Facing Progress Bar of DECO BLCP - BD01 FACILITY D&D Sheet 2 of 3 Facing Progress Bar of DECO BLCP - BD01 FACILITY D&D Sheet 2 of 3 Facing Progress Bar of DECO BLCP - BD01 FACING PROGRESS BAR OF SHEET BAR	DADM0113M	Notice To Proceed - Admin. Cmplx.	04OCT04*		0	Notice 1 Proceed - Admin. Cmplx.
Sheet 2 of 3 Shee	JLABC11M3	Notice To Proceed - Laboratory Complex	04OCT04		0	♦ Notice To Proceed - Laboratory Complex
Finish Date 11DEC08 FACILITY D&D Page 120 Agriculture 15:19 Progress Bar Date 10:705 Post 15:19 Progress Bar D-705 Progr			01DEC00 BLCF -	BD01		
		Finish Date Data Date Run Date	11DEC08 01DEC00		FACILIT	Early Bar Date Revision Progress Bar D-705

1.1.B.A MANAGEMENT FACILITY D&D

Early Bar
Progress Bar
Critical Activity
Critical Activity
Critical Activity
Date
Revision
D-705
D-861
R1-F02-047

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1.1.B.A MANAGEMENT **FACILITY D&D**

10		Ĺ		
Early Bar	Progress Bar	Critical Activity		

heckedApproved Revision D-705 D-861 R1-F02-047

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SECTION 1 3.0 MANPOWER PLANS

MPS # 1BA01 D&D MANAGEMENT

DRIVERS		START DATE	END DATE	TOT	۾ ۾	FY 2001	3 04	10	FY 2002 Q1 Q2 Q	02 Q3 Q4	•	FY 2003 Q1 Q2 Q3		8	9 اے	FY 2004	03 04	•	5 6	FY 2005 Q1 Q2 Q3 Q4	8	Ισ	FY 2006 Q1 Q2 Q3		8	
206 ADMIN COMPLEX D&D	&D	10/01/2004	07/03/2006															2	×	××	×	xxx xxx xxx xxx xxx xxx	×		×	ı
Construction	uo	Construction Coordinator		68.20	8.0	8.	0.8	8.0	6	က	6	en	e -	· 6	က	9	က	е	၈	၈	e	3	~	8	8	
Construction	u	Construction Engineer		44.10	1.8	1.8	1.8	<u>8</u>	2	8	~	~	2	7	8	8	7	~	2	2	2	- 7	-	-	-	
Construction	u	Construction Mgr.		53.80	2.2	2.2	2.2 2	2.2	2	8	- 7	~	7	2	~	8	7	- 7	2	7	2	2	-	-	-	
Project Ma	Project Management	Project Mgr.		24.00	-	-	-	_	-	-		_	-	-	-	-	-	-	-	-	-		-	-	-	
Administration	ıtion	Clerks		9.00	0.3	0.3	0.3 0	0.3 0.4	4.0.4	0.4	4.0	0.4 0.4	4.0	4.0	0.4	4.0	9.4	4.0	0.4	0.4	0.4 0.4	4 0.2	0.1	0.1	6.7	
Engineerin	Engineering & Design	Engineer		64.10	6.3	6.3	6.3	6.3 1.5	5 1.5	5:	- 	1.5 1.5	1.5	1.5	1.5	1.5	5.1		5.	1.5	.5		-	-	-	
Project Controls	introls	Scheduler		24.90	1.3	1.3	1.3	- 1.3	_	-		_	-	-	-	-	-	-	-	-	_	1 0.5	0.5	9.0	9.0	
Project Controls	ntrols	Cost Analyst		26.90	8	7	8		_	-	-	_	-	-	-	-	-	-	-	-	-	- 1 0.5	0.5	0.5	0.5	
Procurement	ant	Buyer/Contracts Administrator	ator	22.90	-	-	-	_	_	-	- -	_	-	-	-	-	-	-	-	-	-		0.5	0.5	0.5	
Environmental	ental	Environmental Protection Rep.	.de	0.00	•	•	•	-	0	0	•	0	0	0	0	0	0	-	0	0		-	0	0	•	
Environmental	ıntal	Environmental Scientist Rep.	<u>ç</u> .	7.80	4.0	4.	0.4 0.4	0.3	3 0.3	0.3	0.3	0.3 0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3 0.3	3 0.3	3 0.2	0.1	0.1	0.1	
Environmental	ıntal	Environmental Scientist Tech.	5	7.30	0	0	0	0 0.5	5 0.5	0.3		0.2 0.2	0.3	0.3	9.0	9.0	4.0	0.5	0.4	0.3 0.3	3 0.3	3 0.2	0.1	0.1	1.0	
General Labor	abor	General Laborer		67.20	7.8	7.8	7.8 7.8		2 2	8	-7	2	2	7	2	7	2	- 7	7	8			-	-	-	
General Labor	abor	Hazwat		62.00	0	۰	0	-	e	က	- 	6	က	е е	က	က	က		က	6	٠, س		-	Ţ -	-	
Transporta	Transportation Labor	Heavy Equipment Operator		22.40	9.0	9.0	9.6 0.6	- 	_	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	
Environme	intal Safety & H	Environmental Safety & H Industrial Hygienist Tech.		24.10	1.3	£.	1.3 1.3		_	-	-	_	-	-	-	-	-		-	_		0.5	0.5	0.5	9.0	
Operations Labor	Labor	Industrial Vacuum Operator		4.10	0	0	0	0.3	0.3	0.2 0	0.1	0.2 0.2	0.2	0.2	9.4	0.3	0.2	0.5	0.3	0.2 0.2	2 0.2		0.1	1.0	0.7	
QAQC		QA/QC Tech.		21.70	7	-	11 11		6.0	0.9	6:0	6.9 0.9	6.0	6.0	6.0	6.0	6.0	6:0	0.9	0.9 0.9	9 0.9	9.0	0.5	0.5	9.0	
Environme	Environmental Safety & H Rad Engineer	Rad Engineer		26.00	8	7	7	- ~	-	-	-	-	-	-	-	-	-	_	-	-	_		0.5	0.5	9.0	
Environme	Environmental Safety & H Rad Tech	Rad Tech		214.90	7.1	. 1.7	1.1 7.1	<u>-</u>	5	9	<u>-</u>	01	9	9	10	10	9	-01	₽.	9	10 10		9	9	9	
Environme	Environmental Safety & H Safety Tech.	Safety Tech.		34.10	3.3	3.3	3.3 3.3		-	-	-	-	-	-	-	-	-	-	-	-	_		-	-	-	
Waste Management	nagement	Waste Engineer		32.10	3.3	3.3	3.3 3.3	· ·	-	-	-	-	-	_	-	-	-	-	-	-	_		0.5	0.5	9.0	
Lab		Chemist		19.30	0.7	0.7	0.7 0.7	1.5	1.5	0.9	6.0	9.0 9.0	6.0	0.3	1.3	1.3	-	-	0	7.0 7.0	7 0.7		0.1	1.0	1.0	
Engineerin	Engineering & Design	Drafter/CAD Operator		8.10	0.2	0.2	0.2 0.2	2 0.5	0.5	0.3 0	0.4 0.2	2 0.2	0.3	0.3	0.5	0.5	4.0	0.5	0.4 0	0.3 0.3	3 0.3	0.2	0.1	1.0	1.0	
Engineerin	Engineering & Design	Engineer Electrical		1.00	0	0	0	0.2	•	0	0 0.2	2 0	0	0	4.0	0	0	-	0.2		0	•	0	0	•	
Engineerin	Engineering & Design	Engineer Civil		1.00	0	0	0	0 0.2	•	0	0 0.2	2 0	• .	0	4.0	0	0	-	0.2		0	•	0	0	0	
Engineerin	Engineering & Design	Engineer Piping/Mechanic		1.00	0	0	•	0 0.2	•	0	0 0.2	2 0	0	0	0.4	0	0	-	0.2		0	•	0	0	0	
Lab		Lab Tech.		7.70	0.2	0.2	0.2 0.2	2 0.5	0.5	0.3 0	0.3 0.2	2 0.2	0.3	0.1	9.0	9.0	0.4	4.0	0.4 0	0.3 0.3	3 0.3	0.2	0.1	1.0	0.1	
Subcontract	7	Subcontract Staff	•	458.00	8	23	20 20	8	50	20	20 2	20 20	50	20	50	20	20	50	20 2	20 20	0 20	2	5	5	9	

MPS # 1BA01 D&D MANAGEMENT

DRIVERS	START DATE END DATE	FY 2007 Q1 Q2 Q3 Q4	FY 2008 Q1 Q2 Q3 Q4	FY 2009 Q1 Q2 Q3 Q4	FY 2010 Q1 Q2 Q3 Q4	FY 2011 Q1 Q2 Q3 Q4
206 ADMIN COMPLEX D&D	10/01/2004 07/03/2006					
Construction	Construction Coordinator		-	0 0	0 0 0	0 0 0
Construction	Construction Engineer	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.	0.1 0 0 0	0 0	0 0 0 0
Construction	Construction Mgr.	-	-	0	0 0 0	0 0 0 0
Project Management	Project Mgr.	0 0 0	0 0	0 0	0	0 0 0 0
Administration	Clerks	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0 0	0 0 0	0 0 0 0
Engineering & Design	Engineer	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0 0 0	0 0 0	0 0 0 0
Project Controls	Scheduler	0.2 0.2 0.2 0.2	0.2 0.2 0.2 0.2	0.1 0 0 0	0 0 0	0 0 0 0
Project Controls	Cost Analyst	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0 0 0	0 0 0	0 0 0 0
Procurement	Buyer/Contracts Administrator	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0 0 0	0 0 0	0 0 0 0
Environmental	Environmental Protection Rep.	0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0
Environmental	Environmental Scientist Rep.	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0 0 0	0 0 0	0 0 0 0
Environmental	Environmental Scientist Tech.	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0 0 0	0 0 0	0 0 0 0
General Labor	General Laborer	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0
General Labor	Hazwat	0 0 0	0 0 0	0 0	0 0 0	0 0 0 0
Transportation Labor	Heavy Equipment Operator	0 0 0	0 0 0 0	0 0	0 0 0	0 0 0 0
Environmental Safety & Health	Industrial Hygienist Tech.	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0 0 0	0 0 0	0 0 0 0
Operations Labor	Industrial Vacuum Operator	0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0
QA/QC	QA/QC Tech.	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0 0 0	0 0 0	0 0 0 0
Environmental Safety & Health	Rad Engineer	0 0 0	0 0 0 0	0 0	0 0 0	0 0 0 0
Environmental Safety & Health	Rad Tech	0.5 0.5 0.5 0.5	0.5 0.5 0.5 0.5	0.5 0 0 0	0 0 0	0 0 0 0
Environmental Safety & Health	Safety Tech.	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0 0 0	0 0 0	0 0 0 0
Waste Management	Waste Engineer	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0 0 0	0 0 0	0 0 0 0
Lab	Chemist	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0 0 0	0 0 0	0 0 0 0
Engineering & Design	Drafter/CAD Operator	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0 0	0 0 0	0 0 0 0
Engineering & Design	Engineer Electrical	0 0 0	0 0 0	0	0 0	0 0 0 0
Engineering & Design	Engineer Civil	0 0 0	0 0 0	0 0	0 0	0 0 0 0
Engineering & Design	Engineer Piping/Mechanic	0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0
Lab	Lab Tech.	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0 0 0	0 0	0 0 0 0
Subcontract	Subcontract Staff	2 2 2	2 2 2 2	2 0 0	0 0 0	0 0 0 0

MPS # 1BA01 D&D MANAGEMENT

				Ŀ	FY 2001			FY 2002	2		FY 2003	003		Ĺ	FY 2004			FY 2005	92		Ŧ	FY 2006		
DRIVERS	START DATE END DA	END DATE	101	9	Q1 Q2 Q3 Q4	94	õ	02 (Q1 Q2 Q3 Q4	•	Q1 Q2 Q3 Q4	ဗ	8	5	8	Q1 Q2 Q3 Q4	Ισ	1 02	Q1 Q2 Q3 Q4	1 4	5	Q1 Q2 Q3 Q4	9	
Subcontract	Subcontract Craft		025.00		40)K	40 40 30 30 30	90	50 50 50	- 20	90 90	95	50 50 50	92	92	50 50		20	જ	30	50	20 20 20	50 20	١.
	Shee	Sheet Totals: 2	2382.70 104.7 104.7 94.70 94.70 86.00 107.4 106.1 106.2 106.1 105.5 106.1 105.3 108.5 107.2 106.5 106.7 107.2 105.9 105.9 85.90 51.00 50.2	04.7 10	4.7 94.7	0 94.70	86.00	107.4 1	7.4 106.1 106.2 106.1 105.5 106.1 105.3 108.5 107.2 106.5 106.7 107.2 105.9 10	0 106	105.	106.1	105.3	108.5	07.2 10	6.5 106	7 107	2 105.9	105.9	85.90	51.00 50	20 50.2	20 50.2	۱.

MPS # 1BA01 D&D MANAGEMENT

DATE END DATE Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4	Craft 5 5 5 5 5 5 0 0 0 0 0 0 0 0 0
START DAT	Subcontract Craft
DRIVERS	Subcontract

Sheet Totals; 11.10 11.10 11.10 11.10 11.10 11.10 11.10 11.10 11.10 11.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

SECTION 1 4.0 ESTIMATE

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BFDP1 D&D MANAGEMENT

Page 1 of 9

												10:15 AM	_
PBS:	OHFN02	FACILITY D&D		Ī	uor Fe	Loor Fernald, Inc.	, Inc.				DATE:	TE: 06-Sep-01	þ
WBS:	1.1.B.A BFDP	MANAGEMENT D&D MANAGEMENT			ESTIMATE SU	ESTIMATE SUPPORT WORKSHEET	HEET				PRC	ECT MGR:	· ·
CHARGE NO: 6	BFDP1	D&D MANAGEMENT			(1 FTE EQU	(1 FTE EQUALS 1747 HOURS)	S) (S				PREP.	OMM: JM STEVENS PREPARED BY:	•
COMMENT NO:	D-213, D-2	COMMENT NO: D-213, D-214, D-216, D-220, D-439, D-705, D-861, F02-029, F02-047, F02-048	-861, F02-029, F02-	-047, F02-048							FIS	FISCAL YEAR: 2000-2010	
Resource:	BUYCON	BUYER/CONTRACTS ADMN	IS ADMN	EOC	LABOR	OR							l
Res Dept:		Overtime:	Class:										
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-		
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10		
Yr Hours:		1,452.0	1,747.0	1,747.0	1,747.0	1,747.0	926.5	174.7	174.7	42.1	0.0		
Cum Hours:		1,452.0	3,199.0	4,946.0	6,693.0	8,440.0	9,366.5	9,541.2	9,715.9	9,758.0	9,758.0		
Yr Total Cost:		60,839	77,048	81,609	86,421	91,544	51,870	10,603	11,175	2,993	0		
Cum Total Cost:		60,839	137,887	219,496	305,917	397,461	449,331	459,934	471,109	474,102	474,102		
Resource: C	CLERKS	CLERKS		FOC	LABOR	Ö.							
Res Dept:		Overtime:	Class:										
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-		
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10		
Yr Hours:		435.6	698.8	698.8	698.8	698.8	235.3	174.7	174.7	42.1	0.0		
Cum Hours:		435.6	1,134.4	1,833.2	2,532.0	3,230.8	3,466.1	3,640.8	3,815.5	3,857.6	3,857.6		
Yr Total Cost:		10,406	17,572	18,612	19,710	20,878	7,511	6,045	6,372	1,706	0		
Cum Total Cost:		10,406	27,979	46,591	66,301	87,179	94,690	100,735	107,107	108,814	108,814		
	CNSCOD	CONSTRUCTION COORD	CORD	EOC	LABOR	Se o							
Res Dept:		Overtime:	Class:	s: SAL									
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-		
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10		
Yr Hours:		1,281.6	5,472.8	5,501.0	5,371.0	5,551.0	3,820.0	1,817.0	1,817.0	431.0	0.0		
Cum Hours:		1,281.6	6,754.4	12,255.4	17,626.4	23,177.4	26,997.4	28,814.4	30,631.4	31,062.4	31,062.4		
Yr Total Cost:		40,678	182,840	194,662	201,268	220,344	162,003	83,537	88,048	23,210	0		
Cum Total Cost:		40,678	223,518	418,180	619,448	839,793	1,001,796	1,085,332	1,173,381	1,196,590	1,196,590		

Page 2 of 9

Overtime: Class: COST ANALYST COST OCI 00- Sep 01 Sep 02 Sep 03 2,733.6 3,714.0 3,754.0 2,733.6 3,714.0 3,754.0 2,733.6 3,714.0 3,754.0 2,733.6 3,714.0 3,754.0 2,733.6 3,714.0 3,754.0 2,733.6 3,714.0 3,754.0 2,733.6 3,714.0 3,754.0 2,004.0 Cot 01 Sep 02 Sep 03 3,194.4 3,484.0 3,484.0 3,194.4 3,484.0 3,484.0 3,194.4 3,484.0 3,484.0 3,194.4 3,484.0 3,484.0 3,194.4 3,484.0 3,484.0 3,194.4 3,484.0 3,484.0 3,194.4 3,484.0 3,484.0 3,194.4 3,484.0 3,484.0 3,194.4 3,484.0 3,484.0 3,194.4 3,484.0 3,484.0 3,194.4 3,484.0 3,497.0 2,904.0 1,747.0 1,747.0 2,904.0 1,747.0 1,747.0 2,904.0 4,651.0 6,398.0 3,394.0 3,394.0 1,487.8 3,334.0 3,334.0 1,487.8 3,734.0 3,334.0 1,487.8 3,734.0 1,487.8	Resource: CNSENG	CONSTRUCTION ENG			3	LABOR					
CHANNER CONSTRICTION CONSTRUCTION CONSTRU	Kes Dept:	Overtine:	Class	: SAL							
STATE Stat		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
CASTANIA 37540 37540 31840 31840 21073 18170 1		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
1,000 1,00	vurs:	2,733.6	3,714.0	3,754.0	3,624.0	3,804.0	2,073.0	1,817.0	1,817.0	431.0	0.0
CSTANIA CONSTRUCTION MOR Space 280,138	Hours:	2,733.6	6,447.6	10,201.6	13,825.6	17,629.6	19,702.6	21.519.6	23 336 6	23 767 6	93 767 6
CONSTRUCTION MORE CHAINER CONSTRUCTION MORE CHAINER CONSTRUCTION MORE CHAINER CONSTRUCTION MORE CONSTRUCTION MORE CONSTRUCTION MORE CONSTRUCTION MORE CONSTRUCTION MORE CONSTRUCTION CONST	tal Cost:	148,981	213,056	228,099	233,183	259,275	150,956	143.439	151.186	39.853	9 0
CONSTRUCTION MGR STATE SAL SAL SALS SALS SALS SALS SALS SALS	Total Cost:	148,981	362,037	590,136	823,320	1,082,594	1,233,550	1,376,989	1,528,174	1,568,027	1,568,027
Overfilms: Glass; SAL Oct 02. Oct 02. Oct 03. Oct 04. Oct 04. Oct 05. Sup 06. Sup 07. Sup 08. Sup 07. Sup 08. Sup 07. Sup 08. Sup 07. Sup 08. Sup 08. Sup 07. Sup 08. Sup 08. Sup 08. Sup 07. Sup 08. Sup 08. Sup 08. Sup 07. Sup 08.		CONSTRUCTION MG	œ	Ċ	-	a					
CONTINUE Colation					3	ב ב					
CSTAIN COST NALYST Shp 02 Shp 03 Shp 04 Shp 05 Shp 05 Shp 06 Shp 07 Shp 08 Shp 0	Jept:	Overtime:	Class								
Sep OI Sep OZ SE		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
11944 34840 34840 34840 11853 1747 1477 42.1 31844 31844 34840 34840 11874 11853 11853 11872 118419 118608 118608 128608		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
STANL COST ANALYST SPECIAL 13,878.4 17,170.4 19,023.4 19,186.1 19,372.8 19,414.9 1,184.456 1,347.88 1,381.679 1,	ours:	3,194.4	3,494.0	3,494.0	3,494.0	3.494.0	1.853.0	1747	1747	42.1	000
198,065 228,055 241,556 255,796 1,194,456 1,347,965 15,692 16,593 1,304,645 1,364,645 1,367,645 1,363,676 1,364,645 1,344,645 1,344,	Hours:	3,194.4	6,688.4	10,182.4	13,676.4	17.170.4	19,023.4	19.198.1	19.372.8	19 414 9	10.414.0
CSTANL COST ANALYST EOC: LABOR 1,184,456 1,347,985 1,380,475 1,380,445 1,380,445 1,380,445 1,380,445 1,380,445 1,380,445 1,380,445 1,380,445 1,380,445 1,380,445 1,380,416 1,380,445 1,380,416 1,380,445 1,380,416 1,380,445 1,380,416 1,380,4	ital Cost:	198,085	228,055	241,556	255,798	270.962	153.529	15.692	16.539	4.429	0. 1.
COSTANL COSTANALYST EOC: LABOR Oct 100- Oct 101- Oct 102- Oct 103- Oct 104- Oct 105- Oct 106- Oct 107- Oct 108- Sep 103- Sep 103	Fotal Cost:	198,085	426.140	667.696	923 494	1 194 456	1 347 985	1 363 676	1 380 346	1 204 645	7 200 0
CSTANL COST ANALVST EOC: LABOR Overline: Catasi: SAL LABOR Oct 00- Oct 01- Oct 02- Oct 03- Oct 04- Oct 05- Oct 06- Oct 07- Oct 08- Sep 04 Sep 06 Sep 06 Sep 07 Sep 08 Sep 09 Se											
Overtime: Cotion:		COST ANALYST		EOC	FA	30R					
ORT OD	lept:	Overtime:	Class								
Sep 01 Sep 02 Sep 03 Sep 04 Sep 05 Sep 06 Sep 08 Sep 08 Sep 08 Sep 09 Sep 09<		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
2.904.0 1,747.		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
2,904.0 4,651.0 6,398.0 8,145.0 9,892.0 10,818.5 11,167.9 11,1167.9 11,120.0 112,966 71,532 75,798 84,990 48,156 9,844 10,375 2,779 112,966 184,497 260,283 340,497 425,486 483,486 483,486 493,881 496,640 20,040.0 04.01.2 04.02	urs:	2,904.0	1,747.0	1,747.0	1,747.0	1,747.0	926.5	174.7	174.7	42.1	0.0
DRFCAD DRAFTER/CAD OPERATOR Cot 00- 290.4 Cot 00- 15.200 Cot 00- 290.4 Cot 00- 29.058 Cot 00- 29.059 Cot 00- 29.	lours:	2,904.0	4,651.0	6,398.0	8,145.0	9,892.0	10,818.5	10,993.2	11,167.9	11,210.0	11,210.0
DRFCAD DRAFTEN/CAD OPERATOR EOC. LABOR Cot 102 Cot 102 Cot 103 Cot 104 Cot 105	al Cost:	112,966	71,532	75,766	80,233	84,990	48,156	9,844	10,375	2,779	0
DRFCAD DRAFTER/CAD OPERATOR EOC: LABOR Overtime: Class: SAL LABOR Oct 06- Oct 07- Oct 08- Oct 00- Oct 01- Oct 02- Oct 03- Oct 04- Oct 05- Oct 06- Oct 07- Oct 08- Sep 01 Sep 02 Sep 03 Sep 04 Sep 06 Sep 06 Sep 08 Sep 09 290.4 739.7 437.7 829.3 562.8 224.7 174.7 174.7 42.1 290.4 1,030.1 1,487.8 2,297.1 2,859.9 3,048.6 3,259.3 3,434.0 3,476.1 9,058 24,284 15,220 79,100 101,053 110,417 118,310 126,629 128,857	otal Cost:	112,966	184,497	260,263	340,497	425,486	473,642	483,486	493,861	496,640	496,640
Overtime: Class: SAL Oct 00- Sep 01 Oct 02- Sep 04 Oct 03- Sep 04 Oct 04- Sep 05 Oct 06- Sep 06 Oct 06- Sep 06 Oct 07- Sep 08 Oct 08- Sep 09 Oct 08- Sep 09 Oct 08- Sep 06 Oct 06- Sep 06 Oct 07- Sep 08 Oct 08- Sep 09		DRAFTER/CAD OPEF	RATOR	EOC:	LAB	30R					
Oct 00- Oct 01- Oct 02- Oct 03- Oct 04- Oct 05- Oct 06- Oct 07- Oct 08- Sep 01 Sep 02 Sep 03 Sep 04 Sep 05 Sep 06 Sep 07 Sep 08 Sep 09 290.4 739.7 437.7 829.3 562.8 224.7 174.7 174.7 42.1 290.4 1,030.1 1,467.8 2,297.1 2,859.9 3,084.6 3,259.3 3,434.0 3,476.1 9,058 24,284 15,220 30,538 21,953 9,364 7,893 8,319 2,228 9,058 33,342 48,562 79,100 101,053 110,417 118,310 126,629 128,857	ept:	Overtime:	Class:								
Sep 01 Sep 02 Sep 03 Sep 04 Sep 05 Sep 06 Sep 07 Sep 08 Sep 09 Sep 04 Sep 05 Sep 06 Sep 07 Sep 08 Sep 09 Sep 09 Sep 04 Sep 05 Sep 06 Sep 07 Sep 08 Sep 09 Sep 09 Sep 04 Tag.7, 1,487.8, 2,287.1, 2,859.9, 3,084.6, 3,259.3, 3,434.0, 3,476.1,		8	5		9	Č			!		
Sep 01 Sep 02 Sep 04 Sep 05 Sep 06 Sep 07 Sep 08 Sep 09 290.4 738.7 437.7 828.3 562.8 224.7 174.7 174.7 42.1 290.4 1,030.1 1,467.8 2,287.1 2,859.9 3,064.6 3,259.3 3,434.0 3,476.1 9,058 24,284 15,220 30,538 21,953 9,364 7,893 8,319 2,228 9,058 33,342 48,562 79,100 101,053 110,417 118,310 126,629 128,857		5000		OG 02-	-50 25-	-40 150	-60 13-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
290.4 739.7 437.7 829.3 562.8 224.7 174.7 174.7 42.1 290.4 1,030.1 1,467.8 2,297.1 2,859.9 3,084.6 3,259.3 3,434.0 3,476.1 30,538 21,953 9,364 7,893 8,319 2,228 9,058 33,342 48,562 79,100 101,053 110,417 118,310 126,629 128,857		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
290.4 1,030.1 1,467.8 2,297.1 2,859.9 3,084.6 3,259.3 3,434.0 3,476.1 9,058 24,284 15,220 30,538 21,953 9,364 7,893 8,319 2,228 9,058 33,342 48,562 79,100 101,053 110,417 118,310 126,629 128,857	ITS:	290.4	739.7	437.7	829.3	562.8	224.7	174.7	174.7	42.1	0.0
9,058 24,284 15,220 30,538 21,953 9,364 7,893 8,319 2,228 9,058 33,342 48,562 79,100 101,053 110,417 118,310 126,629 128,857	lours:	290.4	1,030.1	1,467.8	2,297.1	2,859.9	3,084.6	3,259.3	3,434.0	3,476.1	3,476.1
9,058 33,342 48,562 79,100 101,053 110,417 118,310 126,629 128,857	al Cost:	9'028	24,284	15,220	30,538	21,953	9,364	7,893	8,319	2,228	0
	otal Cost:	850'6	33,342	48,562	79,100	101,053	110,417	118,310	126,629	128,857	128,857

Page 3 of 9

ON COSTS
S ESCALATION
INCLUDES

Resource: ENGCVL	JC/L	ENGINEER CIVIL		EOC		LABOR					
Res Dept:		Overtime:	Class:								
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:		0.0	84.2	84.2	168.4	4.77	0.0	0.0	0.0	0.0	0.0
Cum Hours:		0.0	84.2	168.4	336.8	414.2	414.2	414.2	414.2	414.2	414.2
Yr Total Cost:		0	4,820	5,105	10,812	5,264	0	0	0	0	0
Cum Total Cost:		0	4,820	9,924	20,736	26,000	26,000	26,000	26,000	26,000	26,000
Resource: ENGELE	E	ENGINEER ELECTRICAL	ICAL	EOC		LABOR					
Res Dept:		Overtime:	Class:								
		e to	9	5	Š	0	20.400	6		9	
			-10 00	2000	5000	-	-60 130	900	Oct 0/-	Oct 08-	Oct 09-
:		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:		0.0	84.2	84.2	168.4	4.77	0.0	0.0	0.0	0.0	0.0
Cum Hours:		0.0	84.2	168.4	336.8	414.2	414.2	414.2	414.2	414.2	414.2
Yr Total Cost:		0	4,640	4,914	10,408	5,067	0	0	0	0	0
Cum Total Cost:		0	4,640	9,554	19,962	25,029	25,029	25,029	25,029	25,029	25,029
Resource: ENGINR	N.	ENGINEER		EOC		LABOR					
Res Dept:		Overtime:	Class:	: SAL							
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:		9,147.6	2,620.5	2,620.5	2,620.5	2,620.5	1,800.0	174.7	174.7	42.1	0.0
Cum Hours:		9,147.6	11,768.1	14,388.6	17,009.1	19,629.6	21,429.6	21,604.3	21,779.0	21,821.1	21.821.1
Yr Total Cost:		628,989	189,660	200,888	212,732	225,343	165,372	17,400	18,340	4,911	0
Cum Total Cost:		628,989	818,649	1,019,536	1,232,268	1,457,611	1,622,983	1,640,383	1,658,722	1,663,633	1,663,633
Resource: ENGMEC	MEC	ENGINEER MECH/PIPING	PING	EOC		LABOR					
Res Dept:		Overtime:	Class:	SAL							
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:		0.0	84.2	84.2	168.4	77.4	0.0	0.0	0.0	0.0	0.0
Cum Hours:		0.0	84.2	168.4	336.8	414.2	414.2	414.2	414.2	414.2	414.2
Yr Total Cost:		0	5,511	5,837	12,362	6,019	0	0	0	0	0
Cum Total Cost:		0	5,511	11,348	23,710	29,729	29,729	29,729	29,729	29,729	29,729

Page 4 of 9

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	Oct 08- Oct 09- Sep 09 Sep 10 7 42.1 0.0 3,293.4 3,293.4 162,906 162,906	Oct 08- Oct Sep 09 Ser	42.1 0.0 3.185.7 3.185.7 2.023 0 1 108,776 108,776	Oct 08- Oct 09- Sep 09 Sep 10 10.0 0.0 28,301.6 28,301.6 622 0 779,918 779,918	Oct 08- Oct 09- Sep 09 Sep 10 4.0 0.0 23,330.0 23,330.0
	Oct 07- Sep 08 174.7 3,251.3 11,191	Oct 07- Sep 08	174.7 3,143.6 7,553 106,753	Oct 07- Sep 08 35.0 28,291.6 1,959 779,296	Oct 07- Sep 08 14.0 23,326.0
	Oct 06- Sep 07 174.7 3,076.6 10,618	Oct 06-	2,968.9 7,166 99,199	Oct 06- Sep 07 85.0 28,256.6 4,514 777,337	Oct 06- Sep 07 39.0 23,312.0
	Oct 05- Sep 06 224.7 2,901.9 12,598	Oct 05- Sep 06	224.7 2,794.2 8,503 92,033	Oct 05- Sep 06 2,022.0 28,171.6 68,789 772,823	Oct 05- Sep 06 2,047.0 23,273.0
LABOR	Oct 04- Sep 05 524.1 2,677.2 27,503 125,502	LABOR Oct 04- Sep 05	562.8 2,569.5 19,933 83,530 LABOR	Oct 04- Sep 05 3,704.0 26,149.6 116,422 704,035	LABOR Oct 04- Sep 05 5,331.0 21,226.0
	Oct 03- Sep 04 524.1 2,153.1 25,963 97,999	Oct 03- Sep 04	829.3 2,006.7 27,728 63,598	Oct 03- Sep 04 3,589.0 22,445.6 104,928 587,612	Oct 03- Sep 04 5,279.0 15,895.0
EOC:	Oct 02- Sep 03 524.1 1,629.0 24,518 72,036	0 0	437.7 1,177.4 13,820 35,870	Oct 02- Sep 03 3,620.0 18,856.6 100,354 482,683	EOC: HOU Oct 02- Sep 03 5,292.0 10,616.0
REP Class:	Oct 01- Sep 02 524.1 1,104.9 23,148 47,518	O ဖ	739.7 739.7 22,050 22,050	Class: Oct 01 Sep 02 3,681.0 15,236.6 97,099 382,329	Class: Oct 01- Sep 02 5,324.0 5,324.0
ENVIR SCIENCE R. Overtime:	Oct 00- Sep 01 580.8 580.8 24.370 24.370	ENVIR SCIENTIST TECH Overtime: Oct 00- Sep 01	0.0 0.0 0 GEN LABOR MAINT	Overtime: Oct 00- Sep 01 11,555.6 11,555.6 285,229	HAZWAT Overtime: Oct 00- Sep 01 0.0
ENSREP	ii	ENSTEC	st: GLMNT	÷	НАΖМАТ
Resource: Res Dept:	Yr Hours: Cum Hours: Yr Total Cost: Cum Total Cost:	Res Dept:	Yr Hours: Cum Hours: Yr Total Cost: Cum Total Cost: Resource:	Res Dept: Yr Hours: Cum Hours: Yr Total Cost: Cum Total Cost:	Res Dept: Res Dept: Yr Hours: Cum Hours:

	Overtime	iomitae.	-							
	Overzime:	Class:	НОН							
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
	986.2	1,830.0	1,798.0	1,785.0	1,837.0	1,835.0	39.0	14.0	. 4.0	0.0
	986.2	2,816.2	4,614.2	6,399.2	8,236.2	10,071.2	10,110.2	10,124.2	10,128.2	10.128.2
	32,835	61,973	63,958	67,005	74,046	78,984	2,666	1,009	320	0
	32,835	94,808	158,766	225,771	299,818	378,801	381,467	382,476	382,796	382,796
INDVAC	INDUSTRIAL VACUUM OP	JM OP	EOC	Š	LABOR					
	Overtime:	Class:	ПОН							
	Oct 00	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	00406	0ct 07.	50	5
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sen 09	Sen 10
	0.0	390.9	349.4	477.9	388.1	185.3	0.0	00	00	2 0
	0.0	390.9	740.3	1,218.2	1,606.3	1,791.6	1.791.6	1.791.6	1.791.6	1 791 6
	0	10,932	10,350	14,991	12,896	6,578	0	0	0	0
	0	10,932	21,282	36,274	49,170	55,748	55,748	55,748	55,748	55,748
INHIEC	INDUST HYGIENIST TEC	TEC	E0C:	LABOR	80					
	Overtime:	Class:	SAL							
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
	2,007.6	1,978.7	2,007.0	1,877.0	2,057.0	1,146.5	244.7	244.7	52.1	0:0
	2,007.6	3,986.3	5,993.3	7,870.3	9,927.3	11,073.8	11,318.5	11,563.2	11,615.3	11,615.3
	75,666	78,498	84,335	83,522	96,958	57,737	13,359	14,081	3,332	0
	75,666	154,165	238,500	322,022	418,980	476,717	490,076	504,157	507,488	507,488
LABCHM	CHEMIST		EOC	LABOR	S.					
	Overtime:	Class:	SAL							
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
	1,016.4	2,086.5	1,048.5	2,006.2	1,339.0	324.7	174.7	174.7	42.1	0:0
	1,016.4	3,102.9	4,151.4	6,157.6	7,496.6	7,821.3	7,996.0	8,170.7	8,212.8	8,212.8
	39,396	85,125	45,309	91,806	64,906	16,816	808'6	10,338	2,769	0
	900 00									

INCLUDES ESCALATION COSTS

Page 6 of 9

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Resource: LABTEC	LAB TECH		EOC:		LABOR						
Res Dept:	Overtime:	Class:	: SAL								
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-	
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sen 10	
Yr Hours:	290.4	695.5	349.5	785.2	562.8	224.7	174.7	174.7	42.1	00	
Cum Hours:	290.4	985.9	1,335.4	2,120.6	2,683.4	2,908.1	3,082.8	3.257.5	3.299.6	3.299.6	
Yr Total Cost:	8,070	20,344	10,829	25,762	19,560	8,343	7,032	7.412	1.985	0	
Cum Total Cost:	8,070	28,414	39,243	65,005	84,565	92,908	99,941	107,353	109,338	109,338	
Resource: MAT300	MATERIAL OBJCLASS300	88300	FOC		MATERIAL						
Res Dept:	Overtime:	Class:									
	Oct 00-	Oct 01-	Oct 02.	5	5	9	9	6	9	8	
	Sep 01	Sen 02	Sen 03	Sen M	Son OF	-CO 100	00100	00:00	- 60	-61.09	
Yr Units:	245.408.0	55.431.5	55 431 5	55 653 3	56p 05	Sep 06	Sep U/	Sep 08	Sep 09	Sep 10	
Cum I Inite:	245,408.0	200000	0.154.00	55,655.3	55,431.5	8.602,cc	8.602,cc	55,653.3	12,860.1	0.0	
Vr Total Cost:	245,406.0	300,639.5	356,271.1	411,924.4	467,355.9	522,565.7	577,775.6	633,428.8	646,289.0	646,289.0	
O Hard Cost.	904'647	976'00	58,465	60,343	61,785	63,323	65,159	67,587	16,071	0	
Cum Total Cost:	245,408	302,336	360,801	421,144	482,929	546,252	611,411	678,998	690'569	692'069	
Resource: ODC700	ODC 700		EOC:	0000							
Res Dept:	Overtime: REG	Class:	000								
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-	
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10	
Yr Units:	24,761.9	29,761.9	29,761.9	29.881.0	29.761.9	29.642.9	29 642 9	29 881 0	6 904 8		
Cum Units:	24,761.9	54,523.8	84,285.7	114,166.7	143,928.6	173.571.4	203.214.3	233 095 2	240,000,0	240 000 0	
Yr Total Cost:	24,762	30,565	31,391	32,399	33,173	33,999	34,985	36,288	8.629	0	
Cum Total Cost:	24,762	55,327	86,718	119,117	152,290	186,289	221,274	257,562	266,190	266,190	
Resource. ODCIRVI	TDAVELBESOLIDCE		Ċ								
	INAVEL NESCONCE			3							
Res Dept:	Overtime:	Class:	000								
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-	
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10	
Yr Units:	9,904.8	11,904.8	11,904.8	11,952.4	11,904.8	11,857.1	11,857.1	11,952.4	2,761.9	0:0	
Cum Units:	9,904.8	21,809.5	33,714.3	45,666.7	57,571.4	69,428.6	81,285.7	93,238.1	0.000,96	96,000.0	
Yr Total Cost:	9,905	12,226	12,556	12,960	13,269	13,599	13,994	14,515	3,451	0	
Cum Total Cost:	9,905	22,131	34,687	47,647	60,916	74,516	88,509	103,025	106,476	106,476	

Page 7 of 9

SCHEDULERS Overtime:	Class:	EOC:		LABOR					
Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04	Oct 05-	Oct 06-	Oct 07-	5 5	g 7
Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sen 09	Sep 10
1,887.6	1,747.0	1,747.0	1,747.0	1,747.0	926.5	349.4	349.4	84.2	0.0
1,887.6	3,634.6	5,381.6	7,128.6	8,875.6	9,802.1	10,151.5	10,500.9	10,585.1	10,585.1
99,816	97,239	102,995	109,068	115,533	65,462	26,763	28,208	7,554	
99,816	197,055	300,050	409,118	524,652	590,114	616,877	645,085	652,639	652,639
PROJECT MANAGER		EOC:		LABOR					
Overtime:	Class:								
Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	0ct 06	Oct 07-	Oct 08-	Oct 09-
Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
1,452.0	1,747.0	1,747.0	1,747.0	1,747.0	1,747.0	0:0	0.0	0.0	0.0
1,452.0	3,199.0	4,946.0	6,693.0	8,440.0	10,187.0	10,187.0	10,187.0	10,187.0	10,187.0
129,460	163,953	173,659	183,897	194,799	208,121	0	0	0	0
129,460	293,413	467,071	620,969	845,768	1,053,889	1,053,889	1,053,889	1,053,889	1,053,889
QA/QC TECH		EOC:		LABOR					
Overtime:	Class:	SAL							
Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
1,597.2	1,572.3	1,572.3	1,572.3	1,572.3	915.9	174.7	174.7	42.1	0.0
1,597.2	3,169.5	4,741.8	6,314.1	7,886.4	8,802.3	8,977.0	9,151.7	9,193.8	9,193.8
49,322	51,106	54,131	57,323	60,721	37,790	7,814	8,236	2,206	0
49,322	100,427	154,558	211,881	272,601	310,391	318,206	326,442	328,647	328,647
RAD ENGINEER		EOC	LABOR	Ö.					
Overtime:	Class:	SAL							
Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
0.0	1,747.0	1,747.0	1,747.0	1,747.0	926.5	0.0	0.0	0.0	0.0
0.0	1,747.0	3,494.0	5,241.0	6,988.0	7,914.5	7,914.5	7,914.5	7,914.5	7,914.5
0	86,794	91,932	97,353	103,124	58,431	0	0	0	0
0	86,794	178,726	276,079	379,203	437,633	437,633	437,633	437,633	437,633

Page 8 of 9

Resource: RADTEC	RAD TECH				LABOR					
Res Dept:	Overtime:	5	Class: SAL							
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:	10,549.2	17,091.5	17,990.0	17,730.0	18,090.0	11,346.0	1,013.5	1,013.5	230.5	
Cum Hours:	10,549.2	27,640.7	45,630.7	63,360.7	81,450.7	92,796.7	93.810.2	94.823.7	95.054.2	95 054 2
Yr Total Cost:	363,606	621,416	693,419	718,611	784,225	526,667	53.486	56.375	13.906	i C
Cum Total Cost:	363,606	985,023	1,678,441	2,397,052	3,181,277	3,707,944	3,761,430	3,817,806	3,831,711	3,831,711
Resource: S&HTEC	SAFETY TECH		. EOC:		LABOR					
Res Dept:	Overtime:	ซี	Class: SAL							
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:	4,911.6	1,978.7	2,007.0	1,887.0	2,047.0	1,967.0	244.7	244.7	52.1	0.0
Cum Hours:	4,911.6	6,890.3	8,897.3	10,784.3	12,831.3	14,798.3	15,043.0	15,287.7	15,339.8	15,339.8
Yr Total Cost:	141,994	60,212	64,689	64,407	74,010	75,981	10,247	10,800	2,555	0
Cum Total Cost:	141,994	202,206	266,895	331,302	405,312	481,293	491,540	502,340	504,896	504,896
Resource.	Sells		Ċ		SOCTORGINOCOLIS	9				
_	2000				DECONIRACIO	e				
Res Dept:	Overtime:	ö	Class: SUB							
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Units:	389,269.0	379,930.0	328,622.9	287,529.5	292,969.5	277,150.8	241,681.1	228,330.0	52,612.1	0:0
Cum Units:	389,269.0	769,199.0	1,097,821.9	1,385,351.3	1,678,320.8	1,955,471.6	2,197,152.7	2,425,482.7	2,478,094.8	2,478,094.8
Yr Total Cost:	389,269	390,188	346,608	311,757	326,550	317,877	285,233	277,291	65,747	0
Cum Total Cost:	389,269	779,457	1,126,065	1,437,822	1,764,372	2,082,249	2,367,482	2,644,774	2,710,520	2,710,520
Resource: WSTENG	WASTE ENGINEER		E0C:		LABOR					
Res Dept:	Overtime:	<u>ਲ</u>	Class: SAL							
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:	4,791.6	1,747.0	1,747.0	1,747.0	1,747.0	926.5	174.7	174.7	42.1	0.0
Cum Hours:	4,791.6	6,538.6	8,285.6	10,032.6	11,779.6	12,706.1	12,880.8	13,055.5	13,097.6	13,097.6
Yr Total Cost:	244,515	93,837	99,392	105,252	111,492	63,172	12,913	13,611	3,645	0
Cum Total Cost:	244,515	338,352	437,744	542,996	654,488	717,660	730,573	744,184	747,829	747,829

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	Oct 00-	Oct 01-		Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02		Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
r Hours:	63,065.4	65,367.3		65,966.8	65,460.4	38,849.0	7,745.7	7,645.7	1,804.1	0.0
Cum Hours:	63,065.4	128,432.7		258,635.6	324,096.0	362,945.0	370,690.7	378,336.4	380,140.5	380,140.5
'r Total Cost:	3,373,626	3,245,246	3,325,659	3,528,622	3,716,107	2,551,964	862,648	877,733	220,212	
Sum Total Cost:	3,373,626	6,618,872		13,473,153	17,189,260	19,741,225	20,603,873	21,481,606	21.701.818	21.701.818
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CONTROL TEAM Myselen 12.

CAM

SECTION 1 5.0 RISK PLAN

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	Risk Handling Strategy	2 Accept 2 Accept
18	Risk Critical Value	000
811/07/18	Probable Cost \$ (Likellest Case)	2 \$35,000
(a)	Risk Probability Level	
ars (Minimum/Ces	Risk Probability %	10
Otal Baseline Doll	Risk Impact Level	2
Same	Impact Cost \$ I (Maximum Case)	\$350,000
	formal rnal ernal rer	Internal Internal
PBS Number: 02 WBS/Number: 118/A	Control Protection as Municipal British of the Control of the Cont	urchase 50 ROBs :-
NEW TOBERS OF THE POSSES OF THE PROPERTY OF THE POSSES OF	Datestorskyter Risk and/or Opportunity Potential Impact	Have to stage in ROBs Purchase 50 ROBs Have to stage in ROBs Purchase 70 ROBs
Sementh ens	CAM: M. Stevens IDB Project Task Ris	le Debris-Thorium aminated debris te Debris- Cat I

Total: \$157,500

\$840,000

Total:

Project: Demolition:East Warehouse	Warehouse Int:	PBS Number: 02				Total Baseline Do	Total Baseline Dollars (Minimum Casel: \$968 909 00	OO 800 800 10:		
Evaluator: M. Stevens	Date: 2-26-01 (47)	WBS Number: 1.1.B.Q			F02:			and a contract the		
GAM: M. Stevens	Date: 2-26-01	Control Account Number: BEWC	er: BEWG		1047					
Project Task	Risk and/or Opportunity Potential Impact	Potential Impact	Internal	Impact Ri	Risk Impact	Risk	Risk	Probable	Rick	Risk
			Đ¢.		Level	Probability	Probability	Cost \$	Critical	Handling
			External	(Maximum		. %	Level	(Likelies)	Value	Stratony
F02-			Driver	Case)				Case)		Gorano
Utility Isolation	Delay	Escalation-	Internal	\$10,000,00	rt T	7	256	2 \$2,500.00		1 Accept
Utility Redistribution	Delay	Escalation-	Internal	00:0\$	+	ď	26 2	\$0.00		1
Demolition	Delay	Escalation	Internal	\$50,000.00	+	ici.	26	\$12,500.00		1 Accept
			Total	00 000 08\$				00 000 111		

						F02.				
Project: Administration Complex		PBS Number: 02				Total Baseline D	Mare (Minimum C	Total Baseline Dollars (Minimum Case): \$12,500,390,00	961	
#	Date: 2-26-01	WBS Number: 1,1,B,B								
#	Date: 2-26-01	Control Account Number: BADM	#:-BADM							
19	Risk-and/or-Opportunity	Potential Impact	Internal	Impact	Risk-Impact	Risk	Risk	Probable	Risk	Risk
			# 0	Cost \$	Level	Probability	Probability	Cost \$	Critical	Handling
			External	(Maximum		%	Level	(Likeliest	¥alue	Strategy
			Driver	Case)				Case)		
Delay	a+	Escalation-	Internal	\$10,000.00	+	7	25	2 \$2,500,00	00	1 Accept
Delay	æ	Escalation-	Internal	00'000'08\$	+	Ci	25	2 \$7,500.00	8	1 Accept
₹	Delay	Escalation	Internal	\$120,000.00	7	5	25	\$30,000.00	00	2 Accept
			Total:	\$160,000,00			Total:	\$40,000.00	96	
١					The real Property lies and the least lies and the lies and the least lies and the lies and the least lies and the lies and t	the state of the late of the l				

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Project: Demolition: Electrical Substation	rieal Substation	PBS-Number: 02				Total Baseline C	Jollare (Minimum C	Total Baseline Dollare (Minimum Casel: \$792 467 00			
Evaluator: M. Stevens	Date: 2-26-01	WBS Number: 1,1,B,C						Part of the state			
CAM: M. Stevens	Date: 2.26.01	Control Account Number: BEI	er: BELE								
Project Task	Risk and/or Opportunity	Potential Impact	Internal	Impact	Risk Impact	Risk	Risk	Probable	Risk	Rick	_
			ð	Gost \$	Level	Probability	Probability	Cost \$	Celtical	Handling	
			External	(Maximum		%	Level	// ikeliest	Value	Stratour	
102.			Driver	Case)				Case)		Afamaa	
Utility Isolation	Delay	Escalation-	Internal	\$60,000,00		, t	25	2 \$12,500.00	g	1 Accept	
Utility Redistribution	Delay	Escalation-	Internal	\$100,000,00	6	2	25		2 2	1 Accord	
Demolition	Delay	Escalation	Internal	\$20,000,00		+	25		2 9	1 Accept	
									5	dogod	
			Total	\$170,000,00	0	The second secon	Total	\$42.500.00	o		
									2		

047						R1. F02. 047				
Project: Demolition:General Sump	al Sump	PBS-Number: 02				Total Baseline De	Total Baseline Dollars (Minimum Case): \$3,566,696,00	91: \$3,566,696,00		
Evaluator: M. Stevens	Date: 2 26-01	WBS Numbers 1.1.B.D								
CAM: M. Stevens	Date: 2-26-01	Control Assount Number: BGSC	1-B68C							
Project Task	Risk and/or Opportunity	Potential Impact	Internal	Impact	Risk Impact	Risk	Risk	Probable	Risk	Risk
			ъ	Cost-\$	Level	Probability	Probability	Cost \$	Critical	Handling
			External	(Maximum		%	Level	(Likeliest	Value	Strateov
F02-			Driver	Case)				Case)		
Utility Isolation	Delay	Escalation-	Internal	\$10,000.00	+	97		\$2,500,00	e	4 Accept
Utility Redistribution	Delaγ	Escalation-	Internal	00'0\$	+	97	16	00'0\$	e	-
Demolition	Delay	Escalation	Internal	00'000'08\$	**	578		2 \$7,500.00	e	1 Accept
			Total:	\$40,000,00			Tetali	\$10,000,00	0	

PBS Number: 11.B.5 PBS Number: 11.B.5 Posterio Deliare (Minimum Case) \$5,864,909.00 PBS Number: 11.B.5 Posterio Deliare (Minimum Case) \$5,864,909.00 Posterio Deliare (Minimum Case) \$5,904,909.00 Posterio Deliare (Minimum Case)							F02- 047				
se Dates 2.26-01 WBS Number: 11.B.E. Risk Risk Impact Risk Impact <th< th=""><th>Project: Laboratory</th><th></th><th>PBS Number: 02</th><th></th><th></th><th></th><th>Total Baseline De</th><th>Hars (Minimum Cau</th><th>se): \$5,964,999.</th><th>8</th><th></th></th<>	Project: Laboratory		PBS Number: 02				Total Baseline De	Hars (Minimum Cau	se): \$5,964,999.	8	
e Dates 2-2-0.01 Control Account Number: BLAB Impact Risk Impact	Evaluator: M. Stevens	Date: 2-26-01	WBS Number: 1.1.B.E								
Risk and/or-Opportunity Potential Impact Internal	CAM: M. Stevens	Date: 2 26 01	Control Account Numb	er: BLAB							
Or Cost-\$ Level Probability Probability Cost-\$ External [Maximum % Level (Lilkeliset Driver Case) Case) Case) Case) Eccelation- Internal \$20,000,00 1- 25- 45,000,00 Eccelation- Internal \$250,000,00 1- 26- 2- \$0,00 Eccelation- Internal \$250,000,00 2- 26- 2- \$62,600,00	Project Task	Risk-and/or-Opportunity	Potential Impact	Internal	Impact	Risk Impact	Riek	Risk	Probable	Risk	Risk
External (Maximum % Lovel (Likeliast Case)				ď	Cost \$	Level	Probability	Probability	Cost.\$	Critical	Handling
Dolay Escalation Internal \$20,000,00 I 25 2 tion- Dolay Escalation Internal \$250,000,00 I 25 2 Linemal 4250,000,00 2 2 2 2				External	(Maximum		%	Level	(Likeliest	Value	Strategy
Delay. Escalation Internal. \$20,000.00 1 26 2 iton. Delay. Escalation Internal. \$0,00 1 26 2 Delay. Escalation Internal. \$250,000.00 2 26 2				Driver	Case)				Case)		
Delay. Escalation - Lecalation Internal sum of the material sum of th											
tribution Delay- Escalation Internal- \$0.00 1 26 2- - Delay- - Escalation Internal- \$250,000.00 2 26- 26-	lity Isolation-	-Delay-	-Escalation-	-Internal-	\$20,000,00	 	26	2)'000'9\$	Q	1-Accept
Delay- Fecaletion Internal	lity Redistribution-	-Delay-	-Escalation-	-Internal-	00'0\$		26	2	70\$	g	#
	molition-	-Delay-	-Escalation-	-Internal-	\$250,000,00	2	26	2	\$62,500,0		2-Aecept

F02- 047						703. 047				
Project: Demolition:Liquid Storage	Storage	PBS Number: 02				Total Baseline Doll	Total Baseline Dollars (Minimum Case): \$3,461,074,00	1: \$3,461,074.00		
Evaluator: Mr. Stevens	Date: 2-26-01	WBS-Number: 1.1.B.F								
CAM: M. Stevens	Date: 2-26-01	Control Account Number: BLQD	#: BLOD							
Project Task	Risk and/or Opportunity	Potential-Impact	Internal	Impact	Risk-Impact	Risk	Risk	Probable	Risk	Risk
			Đŧ		Level	Probability	Probability	Cost \$	Critical	Handling
			External	(Maximum		%		(Likeliest	Value	Strategy
103			Driver	Case)				Case)		
Utility Isolation	Dela⊁	Escalation-	Internal	\$20,000.00	+	578	7	00'000'9\$	•	1 Accept
Utility-Redistribution	Delay	Escalation-	Internal	\$20,000,00	+	578	2	\$5,000,00	17	1 Accept
Demolition	Dela⊁	Escalation	Internal	\$60,000.00	+	57	7	\$15,000.00	17	1 Accept
			Tetal:	\$100,000.00			Tetal:	\$25,000,00		

603.											
pt: Demolition:Missellaneous	Maneous	PBS Number: 02					Baseline Dollars (Minimum Case): \$11,502,986,00	el: \$11,502.086.t	g		Γ
Evaluator: M. Stevens	Date: 2-26-01	WBS Number: 1,1,B,U									Τ
CAM: M. Stevens	Date: 2-26-01	Control Account Number: E	Pr: BMSC								Τ
Project-Task	Risk and/or Opportunity Potential Impact	Potential Impact	Internal	Impact	Risk Impact	Risk	Risk	Probable	Risk	Risk	
			Ð.	Cost \$	Level	Probability	Probability	Cost-\$	Critical	Handling	
H1.			External	(Maximum		%	Level	(Likeliest	Value	Strateov	
602			Driver	Case)				Case)			
Utility-Isolation	Delay	Escalation-	Internal	\$80,000.00		1 25	2	2 \$20,000,00	О	4 Accept	
Utility Redistribution	Delay	Escalation-	Internal	\$120,000.00		75	190	\$30,000,00	0	1 Accept	Τ
Demolition	Delay	Escalation	Internal	\$160,000,00		2 25		\$40,000,00	0	2 Accept	Τ
											1
			Tetali	00'000'09E\$			Totali	00'000'08\$	0		Γ

702. 047					6.5 7.						
Project: Pilot Plant	PBS Number: 02				Total Ba	seline Dollar	's (Minimum Ca	Total Baseline Dollars (Minimum Casal: \$8,265,081,00	g		Γ
Evaluator: M. Stevens	WBS Number: 1.1.B.P										Т
CAM: M. Stevens	Control Account Number: BP	er: BPPC									Т
Project Task	Potential Impact	Internal	Impact	Risk-Impact	Risk	Œ	Risk	Probable	Risk	Risk	
		Ð	Cost \$	Level	Probability		Probability	Cost \$	Critical	Handling	
		External	(Maximum		%		Level	(Likelies)	Value	Strateny	
002		Driver	Case)					Case)		(Borner)	
Utility-Isolation	Escalation-	Internal	\$10,000,00		+	57		2 \$2.500.00	000	1 Accent	Г
Utility Redistribution	Escalation-	Internal	00'0\$	6	+	25		\$0.00	8	+	Т
Demolition	Escalation	Internal	\$120,000.00		7	25		\$30,000.00	8	2 Accent	Τ
											7
		Totali	\$130,000,00	6			Total:	\$32,500,00	00		Г
					*** Acres Company Comp						

												_
				Risk	Handling	Stratony	6	1	1	2 Accent		
	00	2		Risk	Critical	Value		00 0\$	00 0\$	00	00	
	eal: \$14 604 89	and and the state		Probable	Gost \$	(Likeliest	Case)	2	2	\$150,000,00	\$150,000,00	
	Total Bacolina Dollare (Minimum Caca): \$14 604 681 00	100		Risk	Probability	Level					Total:	
	otal Bacalina Doll			Rick	Probability	. %		25	25	25		T
702 702 043				Risk-Impact R		76		#	+	CH		
					tevel tevel	(Meximum		\$0.00	\$0.00	\$600,000,00	\$600,000,00	
				Impact	Cost \$	(Maxi	Case)				-	
		7	nber: BPL2	Internal	₽	External	Driver	Internal	Internal	Internal	Total:	
	PBS Number: 02	WBS Number: 1,1,8,H	Centrol Account Number: BPL2	Potential Impact				Eccalation-	Escalation-	Escalation		
		Date: 2-26-01	Date: 2-26-01	Risk and/or Opportunity Potential Impact				Delay.	Delay	Delay		
A1: 762: 647	Project: Plant 2	Evaluator: M. Stevens	CAM: M. Stevens	Project-Task		.181	F02.	Utility Isolation	Utility Redistribution	Demolition		

		Ī	Ī								
				Risk	Handling	Stratony	(60000	1 Accept	4 Accept	1 Accept	
	90			Risk	Critical	Value		00"	\$0.00	00'	00"
	sel: \$4.955,486			Probable	Cost \$	(Likelies)	Case)	2 \$2,500,00	7 \$6	\$22,500,00	\$25,000,00
	Total Baseline Dollars (Minimum Case): \$4,955,486.00			Risk	Probability	Level					Total
A1. 702. 047	otal Baseline Del			Risk	Probability	%		578	57	37.	
<u> 28</u>				Risk Impact F	Level	5		#	+	++	
				Impact Ri	Cost \$	(Maximum	Gase)	\$10,000.00	00'0\$	00'000'06\$	\$ 100,000.00
			er: BPL3	Internal	<i>1</i> 0	External	Driver	Internal	Internal	Internal	Total:
	PBS Number: 02	WBS Number: 1.1.B.J	Control Account Number: BPL3	Potential Impact				Escalation-	Escalation-	Escalation	
		Date: 2-26-01	Date: 2-26-01	Risk and/or Opportunity				Delay	D ol aγ	Delay	
RI: F03- 047	Project: Plant 3	Evaluator: M. Stevens	CAM: M. Stevens	Project Task			F02.	Utility Isolation	Utility Redistribution	Demolition	

M: F02: 947						FO2:				
pt: Demolition: Plant 5	4	PBS Numbert 02				Bacalina D	Baseline Dollare (Minimum Casel: \$2 817 500 00	cal. \$2 817 500	g	
Evaluator: M. Stevens	Date: 2-26-01	WBS Number: 1.1.B.K					3	201112000	8	
CAM: M. Stevens	Date: 2-26-01	Control Account Numbers BPL5	Hert-BPL5							
Project Task	Risk and/or Opportunity	Potential Impact	Internal	Impact	Risk-Impact	Risk	Risk	Probable	Risk	Riek
			Or.	Cost \$	Level	Probability	Probability	Gost-\$	Critical	Handling
191			External	(Maximum		*	Level	(Likeliest	Value √	Strateov
FO2- 047			Driver	Case)				Case)		
Utility Isolation	Delay	Escalation-	Internal	\$0.00	00	1	25	2 \$0	00.08	1 Accept
Utility-Redistribution	Delay	Eccalation-	Internal	\$0.00	8	+	2.6	20\$	00 0\$	1 Accept
Demolition	Delay	Escalation	Internal	00'0\$	8	+	26	208	00 05	1 Accept
										Ndoor I.
			Total:	00 0\$	Joseph		Totali		00.00	

11: 002:						R1: F02: 047					
Project: Plant 6		PBS Number: 02				Total Baseline De	Total Baseline Dollare (Minimum Case): \$6,001,749.00	se): \$6,001,749.	8		Г
Evaluator: M. Stevens	Date: 2-26-01	WBS-Number: 1.1.B.M									T
CAM: M. Stevens	Date: 2 26-01	Control Account Number: BPL6	#1-8PL6								F
Project Task	Risk and/or Opportunity	Potential Impact	Internal	Impact	Risk Impaet	Risk	Risk	Probable	Risk	Risk	
			Đ¢	Cost \$	Level	Probability	Probability	Cost \$	Critical	Handling	
			External	(Maximum		%	Level	(Likeliest	Value	Strategy	
102			Driver	Case)				Case)			
047											
Utility Isolation	Delay	Escalation-	Internal	00'0\$	æ	7	579	7	\$0.00	+	F
Utility Redistribution	Delay	Escalation-	Internal	00:0\$	9.	4	25	2	\$0.00	-	Γ
Demolition	Dela⊬	Escalation	Internal	00:0\$	æ	7	25	7	00.0\$	++	Ī
											1
			Tetal:	00'0\$	94		Total;	\$	00'0\$		Г
					-			The state of the s	-]

R1. FO3:						F02:				
Bt: Plant 8		PBS Number: 02				Baseline D	Baseline Dellare (Minimum Case): \$6.861, 638.00	501: \$6.861,638.4	g	
Evaluator: M. Stevens	Date: 2-26-01	WBS Number: 1.1.B.N								
GAM: M. Stevens	Date: 2-26-01	Control Account Numbers L	eri BPL8							
Project Task	Risk and/or Opportunity	Potential Impact	Internal	Impact	Risk Impact	Risk	Risk	Probable	Risk	Risk
			0,	Gost-\$	Level	Probability	Probability	Cost-\$	Critical	Handling
			External	(Maximum		%	Level	(Likeliest	Value	Strategy
702			Driver	Case)				Case)		
Utility Isolation	Delay	Escalation-	Internal	00:0\$	le	+	25	20.00	000	+
Utility Redistribution	Delay	Escalation-	Internal	\$0.00	6	+	25	\$0.00	8	++
Demolition	Dolay	Escalation	Internal	\$240,000.00	e	7	25	\$60,000,00	8	2 Accept
				2740000			Total	860 000 00	9	

				Risk	Handling	Strategy	;		4 Accept	+	2 Aecept	
	8			Risk	Critical	Value			000	98	06	98
	0): \$3,085,150,			Probable	Cost \$	(Likeliest	Case)		\$2,500,00	00.0\$	\$15,000.00	\$17,500,00
	Total Baseline Dollars (Minimum Case): \$3,085,150.00			Risk	Probability	Level			55 52	25 25	25 25	Tetal:
R1. F02. 047	Total Baseline			Risk	Probability	%			+	+	2	
				Risk Impact	Level				0	0	0	0
				Impact	Cost-\$	(Maximum	Case)		\$10,000.00	00'0\$	\$60,000,00	00'000'02\$
			er: BPL1	Internal	- - -	External	Driver		Internal	Internal	Internal	Total:
	PBS Number: 02	WBS Number: 1.1.B.G	Control Account Number: BPL1	Potential Impact					Escalation-	Eccalation-	Escalation	
	Phase-II	Date: 2-26-01	Date: 2-26-01	Risk and/or-Opportunity Potential Impact					Delaγ	Delay	Delay	
74. 753.	Project: Demolition:Plant 1, Phace II	Evaluator: M. Stevens	CAM: M. Stevens	Project Task			H1:	047	Utility Isolation	Utility Redistribution	Demolition	

F02.						F02.				
pt: Onsite Debris Disposal	- boeal	PBS Number: 02					Baseline Dollare (Minimum Case): \$2 464 989 00	A): \$2 464 989 00		
Evaluator: M. Stevens	Date: 5/1/2001	WBS Numbers 1,1,B,S						20100011 01 121 16		
CAM: M. Stevens	Date: 5/1/2001	Control Asseunt Number:	BDNW							
Project Task	Risk and/or Opportunity		Internal	Impact	Risk Impact	Risk	Risk	Probable	Risk	Rick
			1 0	Cost-\$	Level	Probability	Probability		Critical	Handlinn
			External	(Maximum		%	level		Value	Strateou
102.			Driver	Case)				Gase)	200	Assume
Onsite Debris Therium	Hove to stage in ROBs	Purchase 50 ROBs	Internal	\$350,000,00		12	10	\$35,000.00		2 Accont
contaminated debris										
Onsite Debris Cat I	Have to ctage in ROBs	Purchase 70 ROBs	Internal	\$490,000,00		2	25	\$122 500 00		2 Account
Storage							,			adagan
			Total:	\$840,000.00			Total	\$157,500.00		

				٠		÷ 2 3				
bt: D&D Project Management	nagement.	PBS-Number: 02				Baceline	Baceline Dollare (Minimum Case): \$2,381,679,00	50): \$2,381,679,0	8	
Evaluator: M. Stevens	£/1/01	5/1/01 WBS Number: 1.1.B.A								
CAM: M. Stevens	£/1/01	6/1/01 Centrel Asseunt Number: BFDP	er: BFDP							
Project Task	Risk-and/or-Opportunity Potential-Impact	Potential Impact	Internal	Impact	Risk-Impact	Risk	Risk	Probable	Risk	Risk
			<i>†</i> 0	Cost \$	Level	Probability	Prebability	Cost \$	Critical	Handling
			External	(Maximum		%	Level	(Likeliest	Value	Strategy
			Driver	Case)				Case)		
None identified										Aecept

70.5					F02:				
pt: OU1 D&D		PBS-Number: 02			Baselin	Baseline Dollars (Minimum Case): \$1,126,092,00	see): \$1,126,092.	8	
Evaluator: M. Stevens	10/1/9	6/1/01 WBS Number: 1.1.B.T							
CAM: M. Stevens	10/1/9	5/1/01 Centrel Asseunt-Numberi-	eri BWPR						
Project-Task	Risk and/or Opportunity	Potential Impact	Internal	Impact Risk-Impact	Risk	Risk	Probable	Risk	Risk
			Or	Cost \$ Level	Probability	Probability	Cost \$	Gritical	Handling
			External	(Maximum	%	Level	(Likeliest	Value	Strategy
F02-			Driver	Case)			Case)		5
Utility Isolation	Delay	Escalation-	Internal	00'000'01\$	1	25	2 \$2,500.00	00:	1 Accout
Demolition	Delay	Escalation	Internal	\$50,000.00	+	25	2 \$12,500,00	00:	1 Accent
			Lotal:	\$60.000.00		Total	\$15,000,00	00	

WBS DICTIONARY CONTROL ACCOUNT/CHARGE NUMBER

U.S. DEPARTMENT OF ENERGY WORK BREAKDOWN STRUCTURE DICTIONARY PART II - ELEMENT DEFINITION

1. PROJECT TITLE	2. DATE OF CONTRACT	
FEMP (DEFENSE)	12/01/2000	
3. IDENTIFICATION NUMBER		4. INDEX LINE NO.
DE-AC24-010H20115		10
5. WBS ELEMENT CODE	6. WBS ELEMENT TITLE	
1.1.B.B	FACILITY ISOLATION & UTILITY REDI	STRIBUTION
7. APPROVED CP NO.		8. DATE OF CHANGES
NEW PER CP# FY01-0115-0002-00		05/15/2001
9. SYSTEM DESIGN DESCRIPTION	10. BUDGET AND REPORTING NUMBER	
CERCLA / ACA	EW05H3020	

11. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor Material ODCs Subcontracts

b. TECHNICAL CONTENT:

The Administration Complex decontamination and dismantlement (D&D) WBS Element includes activities associated with the utility redistribution, facilities isolation and above-grade D&D of the Administration Complex, which is to be performed in accordance with the Operable Unit 3 (OU3) Integrated Remedial Design/Remedial Action (RD/RA) Work Plan. Facilities included in the Administration Complex are 11, 14A, 14B, 53A, 53B, and 20K.

c. SCOPE OF WORK:

The scope of work includes utility redistribution, facility shutdown, planning, procurement, construction management, D&D Contractor and closure activities associated with the above-grade D&D of the Administration Complex. The scope of work will be accomplished in control account BADM in the following sequence:

Utility Redistribution - includes identification and relocation of electric, water and other utilities necessary to continue operations.

Utility Isolation - includes utility isolation activities along with removal of process hold-up materials encountered by the Contractor during field activities.

Planning and Procurement - includes all planning and procurement activities performed prior to contract award, including Title I/II engineering, document development, estimating, scheduling, data gathering, field surveys and supplemental sampling that supports project planning.

U.S. DEPARTMENT OF ENERGY WORK BREAKDOWN STRUCTURE DICTIONARY PART II - ELEMENT DEFINITION

1. PROJECT TITLE	2. DATE OF CONTRACT	
FEMP (DEFENSE)	12/01/2000	
3. IDENTIFICATION NUMBER		4. INDEX LINE NO.
DE-AC24-010H20115		10
5. WBS ELEMENT CODE	6. WBS ELEMENT TITLE	
1.1.B.B	FACILITY ISOLATION & UTILITY REDI	STRIBUTION
7. APPROVED CP NO.		8. DATE OF CHANGES
NEW PER CP# FY01-0115-0002-00		05/15/2001
9. SYSTEM DESIGN DESCRIPTION	10. BUDGET AND REPORTING NUMBER	
CERCLA / ACA	EW05H3020	

11. ELEMENT TASK DESCRIPTION

Construction Management - includes all field activities associated with construction management, support contractors and materials from contract award through completion of field activities.

Prime D&D Contractor(s) - includes only the D&D Contractor and any contract modifications.

Project Closeout - includes all project closeout activities occurring after completion of field activities. This includes the development of the project completion report and cost account closeout.

WORK SCOPE DEFINITION (Control Account)					
1. PROJECT TITLE		2. DATE			
FEMP (DEFENSE)		08/20/2001	Page 1		
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME			
1.1.B.B	FACILITY ISOL	ATION & UTILITY	REDISTRIBUTION		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER		
48	J. M. STEVENS/5187		J. M. STEVENS		
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE				
EW05H3020	FACILITY D&D				
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE		
NEW PER CP# FY01-0115-0002-00			03/01 - 01/08		
12. TASK IDENTIFICATION (CONTROL ACCOUNT)	13. TASK DESCRIPTION (ONE LINE)				
BFUD	FACILITY ISOL	ATION & UTILITY	REDISTRIBUTION		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor Materials Subcontracts

b. TECHNICAL CONTENT:

Includes activities associated with Facility Isolation and Utility Redistribution.

c. SCOPE OF WORK:

Facility Isolation and Utility Redistribution includes activities associated with the isolation and/or redistribution of all utilities from structures or trailers prior to the start of D&D activities. Facility isolation activities include the physical disconnection of all utilities (i.e. electric, water, steam, etc) that services the structor or trailer. Utility Redistribution activities include the relocation of any utility that services structures or trailers that are distributed through a structure requiring demolition of an area requiring soil excavation.

BFUD1 - Utility Redistribution - includes identification and relocation of electric, water and other utilities necessary to continue operations.

BFUD2 - Facility Isolation - includes utility isolation activities.

Project Manager

Control Account Manager

Rodiny Whiteher

WORK SCOPE DEFINITION (Control Account)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2001	Page 2	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME		
1.1.B.B	FACILITY ISOL	ATION & UTILITY	REDISTRIBUTION	
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE .	7. WBS ELEMENT MANAGER	
48	J. M. STEVENS/5187		J. M. STEVENS	
BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?			11. ESTIMATED START / COMPLETION DATE	
NEW PER CP# FY01-0115-0002-00		03/01 - 01/08		
12. TASK IDENTIFICATION (CONTROL ACCOUNT)	13. TASK DESCRIPTION (ON	E LINE)		
BFUD	FACILITY ISOL	ATION & UTILITY	REDISTRIBUTION	

14. ELEMENT TASK DESCRIPTION

d. WORK SPECIFICALLY EXCLUDED:

Project Management D&D Subcontractor Offsite Debris Disposal ODCs

WORK SCOPE DEFINITION (Work Package)					
1. PROJECT TITLE		2. DATE			
FEMP (DEFENSE)		08/20/2001	Page 1		
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAM	ME ,	•		
1.1.B.B	FACILITY ISOL	ATION & UTILITY	REDISTRIBUTION		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHOP	NE	7. WBS ELEMENT MANAGER		
48	J. M. STEVENS/5187		J. M. STEVENS		
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE				
EW05H3020	FACILITY D&D				
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?			11. ESTIMATED START / COMPLETION DATE		
NEW PER CP# FY01-0115-0002-00		03/01 - 01/08			
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ON	E LINE)			
BFUD1	FACILITY ISOL	ATION			

a. ELEMENTS OF COST:

Labor Materials Subcontracts

b. TECHNICAL CONTENT:

Facility Isolation includes activities necessary to prepare the work area and support facilities for the above-grade decontamination and dismantlement (D&D) which is to be performed in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

Facility Isolation includes utility isolation activities (i.e. electric, water, steam, etc.) for all structures listed below and excavation area 3A, 4A, 3B, 4B,

PLANT 1 -Phase II

1B Plant 1 Storage Shelter

16N Plant 1 Substation

20A Pump Station & Power Center

30A Chemical Warehouse CP Storage Warehouse 56A

71 General In-Process Warehouse TS-04 Tension Support Structure # 4 TS-05 Tension Support Structure # 5 TS-06 Tension Support Structure # 6

PLANT 2 COMPLEX

2A Ore Refinery Plant 2D Metal Dissolver Bldg. 2F Cold Side Ore Conveyer

Project Manage Control Account Manage Control Team Manager

WORK SCOPE DEFINITION (Work Package)					
(Work Package)					
1. PROJECT TITLE	1. PROJECT TITLE				
FEMP (DEFENSE)		08/20/2001	randomin - r remandation	Page 2	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME			
1.1.B.B	FACILITY ISOL	ATION & UTILITY	REDISTRIBUTION		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO		7. WBS ELEMENT MANAGER		
48	J. M. STEVENS	/5187	J. M. STEVENS		
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE	73107	U. M. SIEVENS		
EW05H3020	ENGIL THU DOD				
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	FACILITY D&D		11. ESTIMATED START / COMPLE	TION DATE	
			11. ESTIMATED START / COMPLE	HON DATE	
NEW PER CP# FY01-0115-0002-00			03/01 - 01/08		
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE	E LINE)			
BFUD1	FACILITY ISOL	ATION			
14. ELEMENT TASK DESCRIPTION					
2H Conveyor Tunnel (1	From Plant 1)				
PLANT 3 COMPLEX					
3B Ozone Bldg. 3C NAR Control House		V.			
3C NAR Control House 3D NAR Towers					
	_				
3E Hot Raffinate Bldg. 3J Combined Raffinate Tanks					
	Combined Raffinate Tanks Old Cooling Water Tower				
	Incinerator Bldg.				
22E Utility Trench to Pit Area					
PLANT 5 COMPLEX					
5A Metals Production Plant 5D West Derby Breakout/Slag Milling					
PLANT 6 COMPLEX	_				
6A Metals Fabrication	Dlan+				
6G Plant 6 Sump Bldg.			,		
PLANT 8 COMPLEX					
8A Recovery Plant					
8B Plant 8 Maintenance	e Blda				
8C Rotary Kiln/Drum F		el da			
8D Plant 8 Railroad B	rilter Blda	aray.			
8E Drum Conveyer Shel	ter				
8G Trash Compactor Area					
8H Soil Washing Building					
HEALTH & SAFETY STRUCTURE					
53A Health & Safety Building					
ADMINISTRATION COMPLEX					
11 Services Building					
14A Administration Building					
14B Bldg. 14 EOC Generator Set					
53B INVIVO Bldg.					

WORK SCOPE DEFINITION (Work Package) 1. PROJECT TITLE 2. DATE FEMP (DEFENSE) 08/20/2001 Page 3 3. WBS ELEMENT CODE 4. WBS ELEMENT TITLE/NAME 1.1.B.B FACILITY ISOLATION & UTILITY REDISTRIBUTION 5. PERFORMING DIV/DEPARTMENT CODE 6. ORIGINATOR NAME/PHONE 7. WBS ELEMENT MANAGER J. M. STEVENS/5187 J. M. STEVENS 8. BUDGET AND REPORTING NUMBER 9. BUDGET TITLE EW05H3020 FACILITY D&D 10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE 03/01 - 01/08 NEW PER CP# FY01-0115-0002-00 12. TASK IDENTIFICATION (WORK PACKAGE) 13. TASK DESCRIPTION (ONE LINE) BFUD1 FACILITY ISOLATION 14. ELEMENT TASK DESCRIPTION 20K New Admin. Area Cooling Towers 31A Vehicle Repair Garage 46 Heavy Equipment Building EAST WAREHOUSE COMPLEX Elevated Potable Storage Tank Finished Products Warehouse (4A) 77 79 Plant 6 Warehouse 82A RIMIA GENERAL SUMP COMPLEX 2B General/Refinery Sump Control Bldg. 2C Bulk Lime Handling Bldg. ЗА Maintenance Bldg. 3H Refinery Sump 3LElectrical Power Center Bldg. 18B General Sump 18D Biodenitrification Towers BDN Effluent Treatment Facility 18H LABORATORY COMPLEX 15A Laboratory Building 15B Laboratory Chemical Storage 15C Laboratory Garage LIQUID STORAGE COMPLEX 26A Pump House - HP Fire Protection 26B Elevated Storage Water Tank 28D Guard Post on West End of 2nd St. 45A Maintenance (Former Rust Engr. and Construction Div. Bldg.) 80 Plant 8 Warehouse 64/65 STRUCTURES 64 Thorium Warehouse 65 Old Plant 5 Warehouse PILOT PLANT COMPLEX

WORK SCOPE DEFINITION (Work Package)					
1. PROJECT TITLE			2. DATE	1	
FEMP (DEFENSE)			08/20/2001	Page 4	
3. WBS ELEMENT CODE	`	4. WBS ELEMENT TITLE/NAI	ME .		
1.1.B.B		FACILITY ISOL	ATION & UTILIT	Y REDISTRIBUTION	
5. PERFORMING DIV/DEPARTM	MENT CODE	6. ORIGINATOR NAME/PHON	1E	7. WBS ELEMENT MANAGER	
48		J. M. STEVENS	/5187	J. M. STEVENS	
8. BUDGET AND REPORTING N	IUMBER	9. BUDGET TITLE			
EW05H3020		FACILITY D&D			
10. ORIGINAL SCOPE?/CHANG	E TO WORK SCOPE? / NEW S	COPE?		11. ESTIMATED START / COMPLETION DATE	
NEW PER CP# FYO	1-0115-0002-00	•		03/01 - 01/08	
12. TASK IDENTIFICATION (WO	RK PACKAGE)	13. TASK DESCRIPTION (ONE	LINE)	33, 32 32, 33	
BFUD1		FACILITY ISOL	A TIT ON		
14. ELEMENT TASK DESCRIPTION	NC	12011111 13011	AIION	·	
13A Pilo	ot Plant Wet Si	de			
	ot Plant Mainte				
	Pump House				
	t Plant Thoriu	m Tank Farm	•		
	ot Plant Annex				
	4 Reduction F	acility			
	ot Plant Shelte		•		
	ot Plant Dissoc				
MISCELLANEOUS	STRUCTURES				
Railroad Track	road Tracks, Phase I Railroad Tracks, Phase II				
5F Plan	Plant 5 Covered Storage Pad				
		r Storage Bldg.			
12F Mair	tenance Labore	r Storage Bldg			
	Maintenance Laborer Storage Bldg. Restored Area Maintenance Bldg.				
	Electrical Substation				
	Electrical Panels & Transformer				
	Trailer Substation #1				
	ler Substation				
	. House #1				
	House #2				
	House #3				
		tation			
	Storm Sewer Lift Station Scale House & Weigh Scale				
	Meteorological Tower				
	Meteorological Tower Locomotive Maintenance Building				
	Sewage Lift Station Bldg.				
	J				
28E Guard Post at OSDF South Entrance (formerly @T81)					
	Guard Post at OSDF South Entrance (formerly @T81) Guard Post NW of Bldg. 45 (T327)				
	·				
28J Security Checkpoint (South Access Rd.)					
2					
	28L Guard Post (N. Const. Access Rd)				
30D Sampling Line Processing 50 Maintenance Storage Building					
50 Main	cenance storag	e purraing			

WORK SCOPE DEFINITION (Work Package)					
1. PROJECT TITLE			2. DATE		
FEMP (DEFE			08/20/2001		Page 5
3. WBS ELEMENT CO	DE	4. WBS ELEMENT TITLE/NAI	ME		
1.1.B.B		FACILITY ISOL	ATION & UTILIT	Y REDISTRIBUTION	
5. PERFORMING DIV/	DEPARTMENT CODE	6. ORIGINATOR NAME/PHOI		7. WBS ELEMENT MANAGER	
48		J. M. STEVENS	/5187	J. M. STEVENS	
8. BUDGET AND REP	ORTING NUMBER	9. BUDGET TITLE			·
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14. ELEMENT TASK DE	ECCDIDION	FACILITY ISOL	ATION		
52A 52B	RTRAK Building ASTD SCEP Building	~			
60	Quonset Hut # 1	3			
61	Quonset Hut # 2				,
62					
	Quonset Hut # 3				
68	Pilot Plant Wareho				
93A	Southwest Boiler B	House			
G-008	Pipe Bridges				
TS-08		Monitor. Equip. Storage			
T1	FDF				
T2	Rad Safety				
T3	Wise Construction				
T4	FDF Training	ning			
T5	FDF Construction	truction			
T 6	Restrooms				
T 7	FDF				
T8	Wise Construction				
T12	CRU4 (DLS)				
T17	FDF				
T18	Break Trailer				
T19	Rad Safety				
T23	10 Plex				
T24	7 Plex North				
T25	7 Plex South				
T26	Waste Management				
T29	Computer				•
T30	Computer				
T33	Shipping Office				
T34	FDF				
T35	FDF	- -			
T36	Heavy Equip. Opera	ators			
T40	Thorium Overpack	(03)			
T41	Waste Certification				
T42	Respirator Washing	g racility			
T43	Restoration				
T44	FDF Maintenance				
T45	Environmental Mon	itoring			

WORK SCOPE DEFINITION (Work Package)						
1. PROJECT TITLE			2. DATE			
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1.1.B.B		FACILITY ISOI	ATION & UTILITY	REDISTRIBUTION		
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48		J. M. STEVENS	3/5187	J. M. STEVENS		
8. BUDGET AND REF	PORTING NUMBER	9. BUDGET TITLE				
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BFUD1		FACILITY ISOL	ATION			
14. ELEMENT TASK D	PESCRIPTION			·		
T46	Environmental Mon	itoring				
T49	Bio-Assay Semi-Tr					
T 50	Rad Safety					
T 57	Rad Safety		5,			
T 58	Construction Offic					
T 59	FDF Waste Managem	ent				
T 60		DOE Field Office				
T61		Startup Group				
T62		Startup Group				
T 65	Plant 1 Pad MC&A Office					
T6 6		RIMIA Tri-Plex				
T 67	Rad. Tech.		•			
T68	CRU1 Office					
T 69	Control Point - RIMIA					
T71	Safe Shutdown					
T 72	Safe Shutdown					
T74	ARASA Changeout Facility					
T75	Multimedia Service	es				
T82	Capital Project					
T83	Capital Project					
T84	Capital Project					
T85	Capital Project					
T86	Capital Project					
T87	Capital Project					
T89	WPA Mens Changeout			· · · · · · · · · · · · · · · · · · ·		
T90	WPA Womens Changed					
T91	WPA Mens Changeout					
T92	WPA Breakroom					
T93	Radiation Control Unit Quad					
T94	Radiation Control Unit Quad					
T95	Radiation Control Unit Quad					
T96	Radiation Control					
T97	··· · · · · · · · · · · · · · · · · ·					
	T98 OSDF					
T100	FDF Office					
T103	Storage					
T108 IAWWTF						

WORK SCOPE DEFINITION (Work Package)					
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BFUD1		FACILITY ISOL	ATION	•	
14. ELEMENT TASK D	ESCRIPTION				
T109	IAWWTF				
T117	CRU4 Construction	Support Office			
T118	CRU4 Support Offic				
T119	Restrooms		V .		
T121	FDF Office				
T122	Storage				
T127	_)			
T128	Mixed Waste	,			
T129		estrooms DF Office torage EPA (Part of T68) ixed Waste EPA (Part of T68)			
T130	Breakroom	•	•		
T131	Breakroom				
T132	Kelchner Office				
T135	Boiler Maintenance	-			
T138	Southern Waste Uni		m n		
T139	Southern Waste Uni				
T141	Maintenance Storage		LP		
T142	Maintenance Storage				
T164	FDF Training	,			
T165	FDF Training				
T166	Industrial Relation	nne			
T167	Industrial Relation				
T168	ARASA Contractor	J113			
T169	ARASA Contractor				
T170	ARASA Contractor				
T171	ARASA Contractor				
T172	FCNDP				
T173	FCNDP		•		
T174	FCNDP				
T175	FCNDP				
T176	FCNDP				
T177	FCNDP				
T178	FCNDP				
T179	FCNDP				
T181	FDF Office				
T182	FDF Office				
T183	FDF Office				
T186	OSDF Office Traile	~~			
1100	ODDE OFFICE ITALIE	5 .			
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WORK SCOPE DEFINITION (Work Package) 1. PROJECT TITLE 2. DATE FEMP (DEFENSE) 08/20/2001 Page 8 3. WBS ELEMENT CODE WBS ELEMENT TITLE/NAME 1.1.B.B FACILITY ISOLATION & UTILITY REDISTRIBUTION 5. PERFORMING DIV/DEPARTMENT CODE 6. ORIGINATOR NAME/PHONE 7. WBS ELEMENT MANAGER J. M. STEVENS/5187 J. M. STEVENS 8. BUDGET AND REPORTING NUMBER 9. BUDGET TITLE EW05H3020 FACILITY D&D 10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE NEW PER CP# FY01-0115-0002-00 03/01 - 01/08 12. TASK IDENTIFICATION (WORK PACKAGE) 13. TASK DESCRIPTION (ONE LINE) BFUD1 FACILITY ISOLATION 14. ELEMENT TASK DESCRIPTION T191 Breakroom/Cooldown T301 IT Corp. T305 Environmental Monitoring T306 Environmental Monitoring T312 Cell 1 Personal Cool Down T313 ARASA Admin. Office "A" T314 ARASA Admin. Office "B" T315 ARASA Laboratory Office T316 ARASA Laboratory "A" T317 ARASA Laboratory "B" T318 ARASA MHB/RCLO Pow. Mod. Bld T319 ARASA Breakroom T320 ARASA Laun./Resp. wash facility T321 ARASA MHB Rad. Cont. Trailer T322. ARASA Supervisor's Office T323 ARASA Control Room ARASA GCS/WTS Pow. Mod. Bldg T325 T326 ARASA Cont. Emissions Mon. Tr. T327 Weigh Scale Ticket Office Doffing Trailer **T330 T502** IT Corp. ARASA **T**505 Facilities Shutdown Break Trailer Office T506 T512 Break-M. Ravenscraft T513 Construction Coordinators T514 Construction (Conference Room) T520 S&W Office T529 Storage T540 Triplex - Porter Breakroom **T603** Storage - Semi Trailer T604 Maintenance Storage Semi Trailer **T608** Break Trailer - Waste Management SOILS PROJECT (NOT IN FACILITY ISOLATION SCOPE OF WORK) BDN Surge Lagoon 18A 18C Coal Pile Runoff Basin 18E Storm Water Retention Basins

		WORK SCOP (Work P	E DEFINITION Package)			
1. PROJECT TITLE			2. DATE			
FEMP (DEFE)	NSE)		08/20/2001	Page 9		
3. WBS ELEMENT CO	DE	4. WBS ELEMENT TITLE/NAI	ME			
1.1.B.B FACILITY ISOLATION & UTILITY REDISTRIBUTION			REDISTRIBUTION			
5. PERFORMING DIV/	DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER		
48		J. M. STEVENS/5187		J. M. STEVENS		
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12. TASK IDENTIFICAT	ION (WORK PACKAGE)	13. TASK DESCRIPTION (ON	E LINE)			
BFUD1		FACILITY ISOL	ATION			
14. ELEMENT TASK DE	SCRIPTION					
18W	S.W.U. Retention I	Basin				
20Ј	Lime Slurry Pits					
21A	Haul Road Wheel Wa	ash Facility				
21B	OSDF Wheel Wash Fa	acility	*			
22C	Truck Scale		*			
22G	Main Gate Truck So					
24D	Railroad Inspection	on Pit				
31B	Old Truck Scale					
74A	Plt. 2 East Pad					
74B	Plt. 2 West Pad					
74C	Plt. 8 East Pad					
74D	Plt. 8 West Pad					
74E	Plt. 4 Pad					
74F	Plt. 7 Pad					
74G	Plt. 5 East Pad					
74H	Plt. 5 South Pad					
74J	Plant 6 Pads					
74K	Plt. 9 Pad					
74L	Bldg. 65 West Pad		-			
74M	Bldg. 64 East Pad		K			
74N	Building 12 North					
74P	Decontamination Part Plt. 8 Old Metal I					
74Q 74R	Plt. 8 North Pad	Dissolver Pad				
748 748	Bldg. 63 West Pad					
74T	Plt. 1 Storage Pag	3				
74U	Pilot Plant Pad	1	,			
74V	Laboratory Pad					
74W	Bldg. 39A Pad			· ·		
82B	Fuel Loading/Unloa	eding Facility	- Gas Boy			
89	Parking Lots	anny Facility	Gas BUY			
34A	K-65 Storage Tank	(North)				
34B	K-65 Storage Tank					
34C	RTS Building	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
35A	Metal Oxide Storag	re Tank (North)				
35B	Metal Oxide Storag					
94A	CRU4 Vitrification					

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5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHOI	7. WBS ELEMENT MANAGER		
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48	J. M. STEVENS	/5187	J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
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12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ON	E LINE)		
BFUD1	FACILITY ISOL	ATION		
14. ELEMENT TASK DESCRIPTION				
WASTE PITS PROJECT (NOT IN F 18F Pit #5 Sluice Gate 18G Clearwell Pump Hou 18N Waste Pit Area Sto 18X OU1 Remediation Sw 88 Clearwell Line 91A Gas Clean. Sys./Wa 91B Material Handling 91C Railcar Loadout (F 91D Railcar Prep. & Li 91E Maintenance Buildi 91F Warehouse 91G Truck Wash Pump Ho 91H Geo-Lab POST CLOSURE STRUCTURES (NOT 16A Main Electrical Sw 16E Main Electrical Tr	ense orm Water Runof orm Pond ater Treat. Sys Building RCLO) oner Storage ong ouse IN FACILITY IS cation witch House	f Control		
16E Main Electrical Tr 16H 10 Plex's North Su				
16J 10 Plex's South Su			·	
16K Dissolved Oxygen E	acility Substa	tion		
18J Methanol Tank			•	
18M High Nitrate Stora 18P Dissolved Oxygen E				
1 2 3	Dissolved Oxygen Building South Plume Int. Treatment Bldg./IAWWT Valve House			
	Outfall Line Pit			
	Recovery Well System Control Bldg. (S. of Willey Rd.)			
18T Public Water Suppl			•	
18U 50K gal. Storage T	lank			
18V Southfield Valve H	Iouse			
18Y AWWT Ozone Generat	ion Bldg.			
18Z Sludge Mix Tank	_			
19B Pilot Plant Ammoni	.a Tank Farm/AW	WT Caustic Tank	Storage	
22F Main Gas Meter				
25J 10 Plexs Sewage Li	it Station.			

WORK SCOPE DEFINITION (Work Package)					
4 000 (507 7)71 5					
PROJECT TITLE			2. DATE		
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48		J. M. STEVENS	/5187	J. M. STEVENS	
8. BUDGET AND REPO	RTING NUMBER	9. BUDGET TITLE			
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10. ORIGINAL SCOPE?	/ CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE	
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12. TASK IDENTIFICATI	ION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE	LINE)		
BFUD1		FACILITY ISOL	ATION		
14. ELEMENT TASK DE	SCRIPTION				
25K	New Sewage Treat.				
26D	Domestic & Fire Wa	ater Booster St	•		
26E	Domestic & Fire Wa	ater 400K Gal.			
26F	Domestic & Fire Wa		on i		
51A	Advanced Wastewate				
51B	Slurry Dewatering	-			
51C	AWWT Laboratory Ex	xpansion Bldg.			
T 76	SWOC				
T77	SWOC				
T 78	SWOC				
T 79	SWOC				
T80	ERMC				
T81	ERMC			•	
T114	Operations Control				
T115	Radiological/Analy	ytical Lab (DOE))		
T116	Organic Lab (DOE)				
T124	FDF Security				
T180	AWWT Office				

c. SCOPE OF WORK:

FACILITY ISOLATION

Facility Isolation will begin after the building or component is vacated and prior to D&D activities.

Facility Isolation consists of isolating or air gapping the following utilities:

- Potable water
- Treated water
- Cooling water supply and return
- Sanitary Sewer
- Process Lines
- Steam and condensate
- Air

WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2001	Page 12	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME		
1.1.B.B	FACILITY ISOLATION & UTILITY REDISTRIBUTION			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER	
48	J. M. STEVENS/5187		J. M. STEVENS	
BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020 FACILITY D&D				
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?			11. ESTIMATED START / COMPLETION DATE	
NEW PER CP# FY01-0115-0002-00			03/01 - 01/08	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)			
BFUD1	FACILITY ISOLATION			

- Fuel gas
- Electric

At the completion of facility isolation activities, a Facility Isolation Turnover package will be prepared documenting the location of all utility isolations.

d. WORK SPECIFICALLY EXCLUDED:

- Project Management
- D&D Subcontractor
- FF G&A
- ODCs
- Removal of Process holdup material, records, salvageable equipment, fire extinguishers, chemicals, etc.
- Utility Redistribution

WORK SCOPE DEFINITION (Work Package)					
1. PROJECT TITLE		2. DATE			
FEMP (DEFENSE)		08/20/2001	Page 1		
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME			
1.1.B.B	FACILITY ISOL	ATION & UTILITY	REDISTRIBUTION		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER		
48	J. M. STEVENS/5187		J. M. STEVENS		
BUDGET AND REPORTING NUMBER	9. BUDGET TITLE				
EW05H3020 FACILITY D&D					
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE		
NEW PER CP# FY01-0115-0002-00			03/01 - 01/08		
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)				
BFUD2	UTILITY REDISTRIBUTION				

a. ELEMENTS OF COST:

Labor Materials Subcontracts

b. TECHNICAL CONTENT:

Utility Redistribution includes activities necessary to prepare the work area and support facilities for the above-grade decontamination and dismantlement (D&D) which is to be performed in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

Utility Redistribution includes indentification and relocation of utilities (i.e. electric and water sources) to maintain nearby structures, components or trailers operational during D&D activities.

c. SCOPE OF WORK:

Utility Redistribution consists of tasks that are performed prior to D&D of a building or component.

Building 11 (Service Building) utility redistribution

To maintain T-24, T-25, T-43, T-45, T-46 operational:

- Reroute electric from cooling tower overhead transformer feed
- Reroute telephone from new telecommunications building
- Reroute alarm from T-77 to maintain 25C (sewage lift station) operational:
- Reroute electric feed to Building 25C (Sewage Lift Station) from Main

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WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2001	Page 2	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME		
1.1.B.B	FACILITY ISOLATION & UTILITY REDISTRIBUTION			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER	
48	J. M. STEVENS/5187		J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	EW05H3020 FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?			11. ESTIMATED START / COMPLETION DATE	
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12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)			
BFUD2	UTILITY REDISTRIBUTION			

Substation transformer

- Reroute electricity to met tower.

Building 14A (Administration Building) utility redistribution To maintain site telephone service install new Telephone room (incoming and outgoing cable):

- Reroute to support AWWT and Area 7 trailers/buildings.
- Install new self contain pre-fab building located north of T-77.
- Reroute incoming cable via overhead poles from north entrance road to new splice box west of 14A. 15 new poles needed.
- Reroute outgoing cable via overhead from new building to closest overhead tie points (approximately 6 points) located north of T-77.
- Reroute incoming fiberoptic cable from 14A to new building.
- Reroute satellite equipment wiring to new building.
- New building requires electric, fire alarm,
- Reroute telecommunications to support Silos and WPRAP. Reroute 600 pair 24-gauge wire and 12-strand fiberoptic cable from new building by existing poles along 30/45 building access road to existing Hut #3 in Silos area.
- Splice cable out of 14A and splice into new building.

To maintain Taco trailers operational:

- Domestic Water needs cross-tie outside southwest corner of Admin. Building. (coordinate with Facility Shutdown)

To maintain T-23 operational:

- Reroute electric from cooling tower overhead transformer feed
- Reroute telephone from new telecommunications building
- Reroute alarm from new telephone building
- Reroute signals and equipment from weather station Met Tower to new telephone building.

Building 53A (Health and Safety Building) utility redistribution

- Reroute telephone feed to Building 82A.

WORK SCOPE DEFINITION (Work Package)						
1. PROJECT TITLE		2. DATE	1			
FEMP (DEFENSE)		08/20/2001	Page 3			
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1.1.B.B	FACILITY ISOLATION & UTILITY REDISTRIBUTION					
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48	J. M. STEVENS/5187		J. M. STEVENS			
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE					
EW05H3020	FACILITY D&D					
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?			11. ESTIMATED START / COMPLETION DATE			
NEW PER CP# FY01-0115-0002-00)		03/01 - 01/08			
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ON	E LINE)				
BFUD2	UTILITY REDISTRIBUTION					

- Reroute telephone fiber optic to Hut #1.
- Reroute telephone and fiber optic to Building 53B (Invivo).
- Convert Building 53B to electric heat.
- Reroute power to T71 and T72.
- Reroute fire alarms to Hut #6.

BUILDING 25C UTILITY REDISTRIBUTION:

Provide portable generator hook-up at Building 25C to provide emergency electrical power for sewage lift station. Provide a manual throwover switch.

BUILDING 15 A UTILITY REDISTRIBUTION:

Reroute fire alarms from trailer complexes to fire alarm panel in T-76.

BUILDING 45A UTILITY REDISTRIBUTION:

Repower electric to trailers T57, T58, T100, T135, T97, parking lot lights and streetlights. Install fire alarm panel in T58 and reroute alarms. Terminate telephone cable from Hut 3 in T58 and redistribute phones and LAN to the trailers.

BUILDING 22B UTILITY REDISTRIBUTION:

Install new lift station north of Taco Trailers to collect sewerage from remaining Area 5 Trailers and pump into existing line to the sewerage treatment plant.

BUILDING 26C UTILITY REDISTRIBUTION:

Install new lift station to collect sewerage from Silo Area and AWWT and pump to sewerage treatment plant.

WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2001	Page 4	
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1.1.B.B	FACILITY ISOLATION & UTILITY REDISTRIBUTION			
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48	J. M. STEVENS/5187		J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
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12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)			
BFUD2	UTILITY REDISTRIBUTION .			

BUILDING 16B (SUBSTATION) UTILITY REDISTRIBUTION:

Refeed the electrical power supply to the main parking lot lights and main entrance road lighting system.

BUILDING 93A (BOILER HOUSE) UTILITY REDISTRIBUTION:

Refeed electrical power to two (2) air compressors.

AREA 4A UTILITY REDISTRIBUTION:

Refeed substation to Building 20A via overhead 13.2 kv pole line.

d. WORK SPECIFICALLY EXCLUDED:

- Project Management
- D&D Subcontractor
- FF G&A
- ODCs
- Facility Isolation

SECTION 1 1.0 NARRATIVE

1. PROJECT TITLE:	2. DATE: 09/10/01	3. PBS#: 02	
DEMOLITION AND DECONTAMINATION			
4. WBS ELEMENT CODE:	5. WBS ELEMENT TITLE	:	
1.1.B.B	Facility Isolation and Utility Redistribution		
6. CAM NAME/ PHONE:	7. CAM SIGNATURE:		
MIKE STEVENS/ 5187			
8. ORIGINAL/ CHANGE SCOPE/ PER CP#:	9. CONTROL ACCOUNT	: BFUD	

R1-F02-047

SECTION 2: BFUD - FACILITY ISOLATION AND UTILITY REDISTRIBUTION

1.0 NARRATIVE

1.1 OVERVIEW

R1-F02-047 Facility Isolation and Utility Redistribution includes all activities associated with the isolation and/or redistribution of all utilities from structures, or trailers prior to the start of D&D activities. Facility Isolation activities include the physical disconnection of all utilities (i.e. electric, water, steam, etc.) that services the structure or trailer. Utility Redistribution activities include the relocation of any utility that services structures or trailers that are distributed through a structure requiring demolition or an area requiring soil excavation.

1.2 ASSUMPTIONS/EXCLUSIONS

1.2.1 Assumptions

Plant 2

- No process hold-up material is expected other than that specifically identified by quantity in the SSD turnover package.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All utilities have been isolated by Facilities Isolation.
- No utility redistribution is required.

Plant 3

- No process hold-up material is expected.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All utilities have been isolated by Facilities Shutdown.
- No utility redistribution is required.

General Sump

 No process hold-up material is expected other than that specifically identified by quantity in the SSD turnover package.

- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- No utility redistribution is required with the exception of Hut 2.

Plant 8

- No process hold-up material is expected other than that specifically identified by quantity in the SSD turnover package.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All utilities have been isolated by Facilities Shutdown.

R1-F02-047

Health and Safety Building

- No process hold-up material is expected.
- All chemicals have been removed prior to D&D.
- All records have been removed prior to D&D.
- All salvageable equipment has been removed prior to D&D.
- Medical, dosimetry, and other facility occupants will have removed any salvageable equipment prior to turnover to the D&D project. Any remaining equipment will be handled as waste.

R1-F02-001 Regulatory approval for the D&D of Building 53A (Health and Safety Building) will be obtained prior to the end of August 2001. An Implementation Plan letter for Building 53A will be submitted to DOF and the Regulatory Agencies prior to the end of June 2001 August 2001.

Liquid Storage

- No process hold-up material is expected.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.

Pilot Plant

R1-F02-016

- No process hold-up material is expected other than what is identified in Safe Shutdown turnover package.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- With the exception of 13B electric, all utilities have been isolated by Facilities Shutdown.
- No utility redistribution is required.

Laboratory

No process hold-up material is expected.

- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.

R1-F02-047

Administration (Includes Electrical Complex)

- No process hold-up material is expected.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.

East Warehouse

- No process hold-up material is expected.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.

Miscellaneous Structures

- No process hold-up material is expected.
- All chemicals have been removed prior to D&D.
- All records have been removed prior to D&D.
- All salvageable equipment has been removed prior to D&D.

R1-F02-047

Building 64/65

- No process hold-up material is expected.
- All chemicals have been removed prior to D&D.
 - All records have been removed prior to D&D.
- All salvageable equipment has been removed prior to D&D.

Plant 1, Phase II

- No process hold-up material is expected.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.

Plant 5

- No process hold-up material is expected.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All utilities have been isolated by Facilities Shutdown.
- No utility redistribution is required.

Plant 6

All chemicals have been removed from this complex.

- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All utilities have been isolated by Facilities Shutdown.
- Perched Water System must remain operational during D&D activities.

R1-F02-027

Soil Excavation Areas

- No utility isolation is required for Soil Excavation Area 6 or 7.
- No utility redistribution is required for Soil Excavation Area 6 or 7.

1.2.2 Exclusions

Work not included in the projects is as follows:

- D&D of structures or trailers.
- Facility closure activities (i.e. removal of salvageable equipment, fire extinguishers, chemicals, HVAC filters, etc.).
- Removal of process hold-up materials.
- Handling, transportation, and disposition of offsite waste.

1.2.3 Government-Furnished Equipment/Services

There are no government-furnished equipment/services associated with this scope of work.

1.3 DRIVERS

D&D is being conducted in accordance with:

- D&D of all facilities at the FEMP is stipulated in the OU3 Record of Decision for Interim Remedial Action (IROD) (DOE1994a), with final treatment and disposition stipulated in the OU3 Record of Decision for Final Remedial Action (DOE 1996a).
- The OU3 Integrated RD/RA Work Plan (Final, May 1997) established a remediation schedule and an EPA Enforceable Milestone for the initial execution of each D&D Project. Any changes to the Milestones will be modified to meet the site objectives and the EPA notified accordingly.

1.4 PROJECT PHYSICAL DESCRIPTION

The scope of work includes utility redistribution and facility isolation of all structures and trailers prior to D&D.

1.4.1 BFUD1 - Facility Isolation

Task #1 - Facility Isolation - Plant 2
 No Facility Isolation is required.

Task #2 - Facility Isolation - Plant 3
 No Facility Isolation is required.

Task #3 - Facility Isolation - General Sump
 Facility Isolation of applicable utilities.

4) Task #4 - Facility Isolation - Plant 8
 No Facility Isolation is required.

R1-F02-047 5) Task #5 - Facility Isolation = Health and Safety Building

Facility Isolation of applicable utilities.

6) <u>Task #6 - Facility Isolation - Liquid Storage</u>
Facility Isolation of applicable utilities.

7) Task #7 - Facility Isolation - Pilot Plant
 Facility Isolation of applicable utilities.

8) <u>Task #8 - Facility Isolation - Laboratory</u>
Facility Isolation of applicable utilities.

R1-F02-047 9) Task #9 - Facility Isolation - Administration (Includes Electrical Complex)

Facility Isolation of applicable utilities.

10) Task #10 - Facility Isolation - East Warehouse

Facility Isolation of applicable utilities.

11) <u>Task #11 - Facility Isolation - Miscellaneous Structures</u>

Facility Isolation of applicable utilities.

R1-F02-047

- 12) Task #12 = Facility Isolation Building 64/65

 Facility Isolation of applicable utilities.
- 13) <u>Task #13 Facility Isolation Plant 1, Phase II</u>

 Facility Isolation of applicable utilities.
- 14) Task #14 Facility Isolation Plant 5

 No Facility Isolation is required.
- 15) <u>Task #15 Facility Isolation Plant 6</u>No Facility Isolation is required.

Facility Isolation of applicable utilities.

17) Task #17 — Facility Isolation — Area 3B

Facility Isolation of applicable utilities.

18) Task #18 — Facility Isolation — Area 4A

Facility Isolation of applicable utilities.

19) Task #19 — Facility Isolation — Area 4B

Facility Isolation of applicable utilities.

20) Task #20 — Facility Isolation — Area 5

Facility Isolation of applicable utilities.

1.4.2 BFUD2 - Utility Redistribution

Utility Redistribution includes identification and relocation of utilities (i.e. electric and water sources) to maintain nearby structures, components or trailers operational during D&D activities.

1) Task #1 - Utility Redistribution - Plant 2

No utility redistribution is required.

2) Task #2 - Utility Redistribution - Plant 3

No utility redistribution is required.

3) Task #3 - Utility Redistribution - General Sump

No utility redistribution is required.

4) Task #4 - Utility Redistribution - Plant 8

No utility redistribution is required.

R1-F02-047

5) Task #5 - Utility Redistribution - Health and Safety Building

Utility Redistribution includes identification and relocation of utilities (i.e. electric and water sources) to maintain nearby structures, components or trailers operational during D&D activities.

6) Task #6 - Utility Redistribution - Liquid Storage

Prior to Building 45A D&D, repower electric to trailers T57, T58, T100, T135, T97, parking lot lights, and streetlights. Install fire alarm panel in T58 and reroute alarms. Terminate telephone cable from Hut 3 in T58 and redistribute phones and LAN to the trailers.

7) Task #7 - Utility Redistribution - Pilot Plant

No utility redistribution is required.

8) Task #8 - Utility Redistribution - Laboratory

Reroute fire alarms from trailer complexes to fire alarm panel in T-76.

R1-F02-047

9) Task #9 - Utility Redistribution - Administration (Includes Electrical Complex)

Utility Redistribution includes identification and relocation of utilities (i.e. electric and water sources) to maintain nearby structures, components or trailers operational during D&D activities.

10) Task #10 - Utility Redistribution - East Warehouse

No utility redistribution is required for this scope of work.

11) Task #11 - Utility Redistribution - Miscellaneous Structures

Utility Redistribution includes the identification and relocation of utilities (i.e. electric and water sources) to maintain nearby structures, components, or trailers operational during D&D activities or soil excavation activities.

R1-F02-047 12) Task #12 - Utility Redistribution - Building 64/65

No utility redistribution is required.

13) Task #13 - Utility Redistribution - Plant 1, Phase II

No utility redistribution is required.

14) Task #14 - Utility Redistribution - Plant 5

No utility redistribution is required.

15) Task #15 - Utility Redistribution - Plant 6

No utility redistribution is required.

R1-F02-027 16) Task #16 - Utility Redistribution - Area 3A

No utility redistribution is required.

17) Task #17 - Utility Redistribution - Area 3B

No utility redistribution is required:

18) Task #18 - Utility Redistribution - Area 4A

Reroute subsurface electrical from 16A to Building 20A.

19). Task #19 - Utility Redistribution - Area 4B

No utility redistribution is required.

20) Task #20 - Utility Redistribution - Area 5

No utility redistribution is required.

1.5 PROJECT PLAN/TECHNICAL SCOPE AND QUANTIFICATION

- 1.5.1 <u>BFUD1 Facility Isolation</u>
- 1) Task #1 Facility Isolation Plant 2
- 1.1) Plan/Scope Facility Isolation Plant 2

Facility Isolation work is completed. The Plant 2 Complex utility isolation status is as follows:

Building 2A

- Potable water Isolated
- Treated water Isolated
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return Isolated
- Sanitary Sewers Isolated
- Electric Isolated
- Fuel Gas Isolated
- Miscellaneous Process lines on High Line Isolated

Building 2D

- Potable water Isolated
- Treated water Isolated
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return Isolated
- Sanitary Sewers Isolated
- Electric Isolated
- Fuel Gas Isolated
- Miscellaneous Process lines on High Line Isolated

Component 2F

- Potable water None
- Treated water None
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return None
- Sanitary Sewers None
- Electric Isolated
- Fuel Gas None

Building 2H

- Potable water None
- Treated water None
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return None
- Sanitary Sewers None
- Electric Isolated
- Fuel Gas None
- Miscellaneous Process lines on High Line None

At the completion of facility isolation activities a Facility Isolation Turnover package will be prepared documenting the location of all utility isolations.

1.2) Quantification - Facility Isolation - Plant 2

No Facility Isolation is required.

2) Task #2 - Facility Isolation - Plant 3

2.1) Plan/Scope - Facility Isolation - Plant 3

Facility Isolation work is completed. The Plant 3 Complex utility isolation status is as follows:

Building 3B

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return not applicable

- Sanitary Sewers not applicable
- Electric Isolated
- Fuel Gas not applicable

Building 3C

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return not applicable
- Sanitary Sewers Isolated
- Electric Isolated
- Fuel Gas not applicable

Component 3D

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return Isolated
- Sanitary Sewers not applicable
- Electric Isolated
- Fuel Gas not applicable

Building 3E

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return not applicable
- Sanitary Sewers not applicable
- Electric Isolated
- Fuel Gas not applicable

Component 3J

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return not applicable

- Sanitary Sewers not applicable
- Electric Isolated
- Fuel Gas not applicable

Component 3K

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate not applicable
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary Sewers not applicable
- Electric not applicable
- Fuel Gas not applicable

Building 39A

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return not applicable
- Sanitary Sewers not applicable
- Electric Isolated
- Fuel Gas not applicable

Component 22E

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate not applicable
- Air Isolated
- Cooling water supply and Return not applicable
- Sanitary Sewers not applicable
- Electric not applicable
- Fuel Gas not applicable

At the completion of facility isolation activities a Facility Isolation Turnover package was prepared documenting the location of all utility isolations.

2.2) Quantification - Facility Isolation - Plant 3

No Facility Isolation is required.

3) Task #3 - Facility Isolation - General Sump

3.1) Plan/Scope - Facility Isolation - General Sump

Facility Isolation will begin after the building or component is vacated and prior to D&D activities.

Building 2B

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep at Building 2B. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return Isolated
- Steam and condensate line Isolated
- Fire water line Isolated
- Sanitary sewer Isolated
- Electric air gap main feeders from substation 3C and air gap at building.
- Air Isolated
- Fuel Gas Isolated

Building 2C

- Domestic water Isolated
- Cooling water supply and return Isolated
- Steam and condensate line Isolated
- Fire water line Isolated
- Sanitary sewer Isolated
- Electric Isolated
- Air Isolated
- Fuel Gas Isolated

Building 3H

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep at Building 3H. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return Isolated
- Steam and condensate line Isolated
- Fire water line Isolated
- Sanitary sewer Isolated
- Electric Isolated

- Air Isolated
- Fuel Gas Isolated

Building 18B

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep at Building 18B. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return Isolated
- Steam and condensate line Isolated
- Fire water line Isolated
- Sanitary sewer Isolated
- Electric Isolated
- Air Isolated
- · Fuel Gas Isolated

Building 18D

- Domestic water Isolated
- Cooling water supply and return Isolated
- Steam and condensate line Isolated
- Fire water line Isolated
- Sanitary sewer Isolated
- Electric Isolated
- Air Isolated
- Fuel Gas Isolated

Building 18H

- Domestic water access domestic water by excavating one trench up to eight
 (8) feet deep at Building 18H. The domestic water line will be physically isolated
 using a blank placed in the line. The excavation will be backfilled upon
 completion.
- Cooling water supply and return Isolated
- Steam and condensate line Isolated
- Fire water line Isolated
- Sanitary sewer Isolated
- Electric Isolated
- Air Isolated
- Fuel Gas Isolated

Building 3A

- Domestic water Isolated
- Cooling water supply and return Isolated
- Steam and condensate line Isolated
- Fire water line Isolated
- Sanitary sewer Isolated
- Electric air gap lines feeding into building from substation 3L.
- Air Isolated
- Fuel Gas Isolated

Building 3L

- Domestic water Isolated
- Cooling water supply and return Isolated
- Steam and condensate line Isolated
- Fire water line Isolated
- Sanitary sewer Isolated
- Electric air gap all lines feeding into the substation and the supply line in the electric manhole.
- Air Isolated
- Fuel Gas Isolated

At the completion of facility isolation activities a Facility Isolation Turnover package will be prepared documenting the location of all utility isolations.

3.2) Quantification - Facility Isolation - General Sump

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 4.

Table 4
Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT
Material	Miscellaneous Allowance @ \$2,000/Structure	\$ 12,000
Equipment	None or FEMP owned	\$ 0
ODCs	Allotted in Control Account BFDP	\$ 0

4) Task #4 - Facility Isolation - Plant 8

4.1) Plan/Scope - Facility Isolation - Plant 8

Facility Isolation work is completed. The Plant 8 Complex utility isolation status is as follows:

Building 8A

- Potable water Isolated
- Treated water Isolated
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return Isolated
- Sanitary Sewers Isolated
- Electric Isolated
- Fuel Gas Isolated
- Miscellaneous Process lines on High Line Isolated

Building 8B

- Potable water Isolated
- Treated water None
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return None
- Sanitary Sewers Isolated
- Electric Isolated
- Fuel Gas None
- Miscellaneous Process lines on High Line Isolated

Building 8C

- Potable water Isolated
- Treated water Isolated
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return None
- Sanitary Sewers None
- Electric Isolated
- Fuel Gas Isolated
- Miscellaneous Process lines on High Line Isolated

Building 8D

- Potable water None
- Treated water None
- Fire Water None
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return None
- Sanitary Sewers None
- Electric Isolated
- Fuel Gas None
- Miscellaneous Process lines on High Line None

Component 8E

- Potable water None
- Treated water None
- Steam and Condensate None
- Fire Water Isolated
- Air Isolated
- Cooling water supply and Return None
- Sanitary Sewers None
- Electric Isolated
- Fuel Gas None
- Miscellaneous Process lines on High Line None

Component 8G

- Potable water Isolated
- Treated water Isolated
- Steam and Condensate Isolated
- Air Isolated

- Cooling water supply and Return Isolated
- Sanitary Sewers Isolated
- Electric Isolated
- Fuel Gas Isolated
- Fire Water Isolated
- Miscellaneous Process lines on High Line Isolated

Component 8H

- Potable water Isolated
- Treated water Isolated
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return Isolated
- Sanitary Sewers Isolated
- Electric Isolated
- Fuel Gas Isolated
- Fire Water Isolated
- Miscellaneous Process lines on High Line Isolated

At the completion of facility isolation activities a Facility Isolation Turnover package was be prepared documenting the location of all utility isolations.

4.2) Quantification - Facility Isolation - Plant 8

No Facility Isolation is required.

5) Task #5 - Facility Isolation - Health and Safety Building

5.1) Plan/Scope - Facility Isolation - Health and Safety Building

- Domestic water access domestic water by excavating one trench on the north side of the Building 53A. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return access cooling water supply and return lines (one line for each) by excavating one trench at the northeast corner of the Administration Building. Each cooling water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Steam and condensate line access the steam and condensate lines (one line for each) using a manlift to the high line on at the corner of 1st and D Street. Each line will be physically isolated using a blank placed in the line.

- Fire water line access fire water line by excavating one trench on the north side of Building 53A. The fire water line will be physically isolated using a blank placed in line. The excavation will be backfilled upon completion.
- Air Line access airline on the south center side of Building 53A. The airline will be physically isolated using a blank placed in the line.
- Sanitary sewer Each sanitary sewer line will be physically isolated using a blank placed in the line. Access one north side line through Manhole 157 and the other north side line though Manhole 105.
- Electric air gap, all lines into building, and the 13.2Kv supply line to Building 11 located in the electrical manholes. Building 53A electric feeds out of Building 11. Airgap the feeds into Building 53A.
- Fuel Gas not applicable.

5.2) Quantification - Facility Isolation - Health and Safety Building

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 4.

Table 4
Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT
Material	Miscellaneous Allowance @ \$2,000/Structure	\$ 12,000
Equipment	None or FEMP owned	\$ O
ODCs	Allotted in Control Account BFDP	\$ 0

6) Task #6 - Facility Isolation - Liquid Storage

6.1) Plan/Scope - Facility Isolation - Liquid Storage

Facility Isolation will begin after the building or component is vacated and prior to D&D activities. The Liquid Storage Complex Facility Isolation consists of Building 26A, Component 26B, Buildings 28D, 45A, and 80.

Building 26A

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep on the north side of the Building 26A. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return access cooling water supply and return lines (one line for each) by excavating one trench up to eight (8) feet deep on the north corner of the Building 26A. Each cooling water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Steam line, condensate line and fuel gas line access the steam, condensate
 and fuel gas lines (one line for each) using a manlift to the high line on the north
 side of Building 26A. Each line will be physically isolated using a blank placed in
 the line.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet deep (one on the north side and one on the west side) at Building 26A. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating five trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines feeding into the building and the two 13.2Kv supply lines to Building 26A located in the electrical manholes. Air gap the entire substation located in the northwest corner of the Building 26A basement. Access the 480 volt overhead line located on the north side of Building 26A using a manlift. Air gap the 480 volt line.
- Fuel Gas not applicable.
- Air line not applicable.

Building 26B

- Domestic water access domestic water by excavating one trench up to eight
 (8) feet deep on the north side of the Building 26B. The domestic water line will
 be physically isolated using a blank placed in the line. The excavation will be
 backfilled upon completion.
- Cooling water supply and return access cooling water supply and return lines (one line for each) by excavating one trench up to eight (8) feet deep on the north corner of the Building 26B. Each cooling water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Steam line, condensate line and fuel gas line access the steam, condensate and fuel gas lines (one line for each) using a manlift to the high line on the north

- side of Building 26B. Each line will be physically isolated using a blank placed in the line.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet deep (one on the north side and one on the west side) at Building 26B. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating five trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines feeding into the building and the two 13.2Kv supply lines to Building 26B located in the electrical manholes. Air gap the entire substation located in the northwest corner of the Building 26B basement. Access the 480 volt overhead line located on the north side of Building 26B using a manlift. Air gap the 480 volt line.
- Fuel Gas not applicable.
- Air line not applicable.

Building 28D

- Domestic water access domestic water by excavating one trench up to eight

 (8) feet deep on the north side of the Building 28D. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return access cooling water supply and return lines (one line for each) by excavating one trench up to eight (8) feet deep on the north corner of the Building 28D. Each cooling water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Steam line, condensate line and fuel gas line access the steam, condensate
 and fuel gas lines (one line for each) using a manlift to the high line on the north
 side of Building 28D. Each line will be physically isolated using a blank placed in
 the line.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet deep (one on the north side and one on the west side) at Building 28D. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating five trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines feeding into the building and the two 13.2Kv supply lines to Building 28D located in the electrical manholes. Air gap the entire substation located in the northwest corner of the Building 28D basement. Access

the 480 volt overhead line located on the north side of Building 28D using a manlift. Air gap the 480 volt line.

- Fuel Gas not applicable.
- Air line not applicable.

Component 45A

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep on the north side of the Building 45A. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return access cooling water supply and return lines (one line for each) by excavating one trench up to eight (8) feet deep on the north corner of the Building 45A. Each cooling water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Steam line, condensate line and fuel gas line access the steam, condensate
 and fuel gas lines (one line for each) using a manlift to the high line on the north
 side of Building 45A. Each line will be physically isolated using a blank placed in
 the line.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet deep (one on the north side and one on the west side) at Building 45A. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating five trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines feeding into the building and the two 13.2Kv supply lines to Building 45A located in the electrical manholes. Air gap the entire substation located in the northwest corner of the Building 45A basement. Access the 480 volt overhead line located on the north side of Building 45A using a manlift. Air gap the 480 volt line.
- Fuel Gas not applicable.
- Air line not applicable.

Building 80

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep on the north side of the Building 80. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return access cooling water supply and return lines (one line for each) by excavating one trench up to eight (8) feet deep on the

north corner of the Building 80. Each cooling water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.

- Steam line, condensate line and fuel gas line access the steam, condensate and fuel gas lines (one line for each) using a manlift to the high line on the north side of Building 80. Each line will be physically isolated using a blank placed in the line.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet deep (one on the north side and one on the west side) at Building 80. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating five trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines feeding into the building and the two 13.2Kv supply lines to Building 80 located in the electrical manholes. Air gap the entire substation located in the northwest corner of the Building 80 basement. Access the 480 volt overhead line located on the north side of Building 80 using a manlift. Air gap the 480 volt line.
- Fuel Gas not applicable.
- Air line not applicable.

At the completion of facility isolation activities a Facility Isolation Turnover package will be prepared documenting the location of all utility isolations.

6.2) Quantification - Facility Isolation - Liquid Storage

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 5.

Table 5
Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT
Material	Miscellaneous Allowance @ \$2,000/Structure	\$ 10,000
Equipment	None or FEMP owned	\$ 0
ODCs	Allotted in Control Account BFDP	\$ 0

7) Task #7 - Facility Isolation - Pilot Plant

7.1) Plan/Scope - Facility Isolation - Pilot Plant

Facility Isolation will begin after the building or component is vacated and prior to D&D activities.

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

At the completion of facility isolation activities a Facility Isolation Turnover package will be prepared documenting the location of all utility isolations.

Building 13A

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate not applicable
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary Sewers not applicable
- Electric Isolated
- Fuel Gas Isolated

Building 13B

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate not applicable

- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary Sewers not applicable
- Electric air gap all lines entering building
- Fuel Gas Isolated

Building 13C

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate not applicable
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary Sewers not applicable
- Electric Isolated
- Fuel Gas Isolated

Component 13D

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate not applicable
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary Sewers not applicable
- Electric Isolated
- Fuel Gas Isolated

Building 37

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate not applicable
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary Sewers not applicable
- Electric Isolated
- Fuel Gas Isolated

Building 54A

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate not applicable

- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary Sewers not applicable
- Electric Isolated
- Fuel Gas Isolated

Building 54B

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate not applicable
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary Sewers not applicable
- Electric Isolated
- Fuel Gas Isolated

Building 54C

- Domestic water not applicable
- Fire water not applicable
- Steam and Condensate not applicable
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary Sewers not applicable
- Electric Isolated
- Fuel Gas Isolated

At the completion of facility isolation activities a Facility Isolation Turnover package will be prepared documenting the location of all utility isolations.

7.2) Quantification - Facility Isolation - Pilot Plant

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 4.

Table 4
Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT
Material	Miscellaneous Allowance	\$2,000
Equipment	None or FEMP owned	\$ 0
ODCs	Allotted in Control Account BFDP	\$ 0

8) Task #8 - Facility Isolation - Laboratory

8.1) Plan/Scope - Facility Isolation - Laboratory

Facility Isolation will begin after the building or component is vacated and prior to D&D activities. The Laboratory Complex Facility Isolation consists of Buildings 15A, 15B, and 15C.

Building 15A

- Domestic water access domestic water by excavating one trench up to eight
 (8) feet deep on the north side of the Building 15A. The domestic water line will
 be physically isolated using a blank placed in the line. The excavation will be
 backfilled upon completion.
- Cooling water supply and return access cooling water supply and return lines (one line for each) by excavating one trench up to eight (8) feet deep on the north corner of the Building 15A. Each cooling water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Steam line, condensate line and fuel gas line access the steam, condensate and fuel gas lines (one line for each) using a manlift to the high line on the north side of Building 15A. Each line will be physically isolated using a blank placed in the line.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet deep (one on the north side and one on the west side) at Building 15A. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating five trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines feeding into the building and the two 13.2Kv supply lines to Building 15A located in the electrical manholes. Air gap the entire substation located in the northwest corner of the Building 15A basement. Access the 480 volt overhead line located on the north side of Building 15A using a manlift. Air gap the 480 volt line.

- Fuel Gas not applicable.
- Air line not applicable.

Building 15B

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric not applicable.
- Fuel Gas not applicable.
- Air line not applicable.

Building 15C

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric not applicable.
- Fuel Gas not applicable.
- Air line not applicable.

At the completion of facility isolation activities a Facility Isolation Turnover package will be prepared documenting the location of all utility isolations.

8.2) Quantification - Facility Isolation - Laboratory

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 5.

Table 5
Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT
Material	Miscellaneous Allowance @ \$2,000/Structure	\$ 2,000
Equipment	None or FEMP owned	\$ O
ODCs	Allotted in Control Account BFDP	\$ 0

R1-F02-047 9) Task #9 - Facility Isolation - Administration (Includes Electrical Complex)

9.1) Plan/Scope - Facility Isolation - Administration (Includes Electrical Complex)

R1-F02-047 Facility Isolation will begin after the building or component is vacated and prior to D&D activities. The Administration Complex Facility Isolation consists of Buildings 11, 14A, 14B, Component 20K, Buildings 53A, and 53B, 31A and 46.

Building 11

- Domestic water access domestic water by excavating one trench on the north center side of the Building 11. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return access cooling water supply and return lines (one line for each) by excavating one trench on the south center of the Building 11. Each cooling water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Steam and condensate line access the steam and condensate lines (one line for each) using a manlift to the high line on the west side of Building 11. Each line will be physically isolated using a blank placed in the line.
- Fire water line access fire water line by excavating two trenches (one on the west side and one on the northeast corner) at Building 11. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Air Line access airline on the north center side of Building 11. The airline will be physically isolated using a blank placed in the line.
- Sanitary sewer Each sanitary sewer line will be physically isolated using a blank placed in the line. Access north side line through Manhole 184 and east side line from the pump room basement in Building 53A.
- Electric air gap, all lines feeding into the building and the 13.2Kv supply line to Building 11 located in the electrical manholes. Airgap the feeds into Building 11.
- Fuel Gas not applicable.

Building 14A

- Domestic water access domestic water by excavating one trench on the west side of Building 14A. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return access cooling water supply and return lines (two lines for each) by excavating one trench on the northeast corner of Building 14A (for the first pair of lines) and by excavating one trench on the northwest corner of Building 14A (for the second pair of lines). Each cooling water line will be physically isolated using a blank placed in the line. The excavations will be backfilled upon completion.
- Steam and condensate line access the steam and condensate lines (one line for each) using a manlift to the high line on the northwest side of Building 14A.
 Each line will be physically isolated using a blank placed in the line.
- Fire water line access fire water line by excavating one trench on the west side
 of Building 14A. The fire water line will be physically isolated using a blank
 placed in each of the two line locations. The excavations will be backfilled upon
 completion.
- Fuel gas line access the fuel gas line on the west side of Building 14A. The fuel gas line will be physically isolated using a blank placed in the line.
- Sanitary sewer access each sanitary sewer line (qty:2) by excavating two trenches on the north side of Building 14A. Each sanitary sewer line will be physically isolated using a blank placed in the line. The excavations will be backfilled upon completion.
- Electric air gap, all lines feeding into building, and the 13.2Kv supply line to Building 11 located in the electrical manholes. Building 14A electric feeds out of Building 11. Airgap the feeds into Building 14A.
- Air not applicable.

Building 14B

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam and condensate line not applicable.
- Fire water line not applicable.
- Fuel gas line access the fuel gas line on the west side of Building 14B. The fuel gas line will be physically isolated using a blank placed in the line.
- Sanitary sewer not applicable.
- Electric air gap, all lines feeding into building, and the 13.2Kv supply line to Building 11 located in the electrical manholes. Building 14B electric feeds out of Building 11. Airgap the feeds into Building 14B.
- Air not applicable.

Component 20K

- Domestic water access domestic water by excavating one trench on the north side of the Building 53A. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return access cooling water supply and return lines (one line for each) by excavating one trench at the northeast corner of the Administration Building. Each cooling water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Steam and condensate line not applicable.
- Fire water line not applicable.
- Air Line not applicable.
- Sanitary sewer not applicable.
- Electric Disconnect by air gap at building.
- Fuel Gas not applicable.

Building 53B

- Domestic water access domestic water by excavating one trench on the west side of Building 53B. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam and condensate line access the steam and condensate lines (one line for each) using a manlift to the high line on the northwest side of Building 53B.
 Each line will be physically isolated using a blank placed in the line.
- Fire water line access fire water line by excavating one trench on the west side of Building 53B. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Nitrogen gas line access the nitrogen gas line on the west side of Building 53B.
 The nitrogen gas line will be physically isolated using a blank placed in the line.
- Sanitary sewer access each sanitary sewer line (qty:2) by excavating two trenches on the north side of Building 53B. Each sanitary sewer line will be physically isolated using a blank placed in the line. The excavations will be backfilled upon completion.
- Electric air gap, all lines into building, and the 13.2Kv supply line to Building 11 located in the electrical manholes. Building 53B electric feeds out of Building 11. Airgap the feeds into Building 53B.
- Air not applicable.

Building 46

- Domestic water access domestic water by excavating a trench up to eight (8) feet deep at Building 46. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Steam and condensate line access the steam and condensate lines (one line for each) using a manlift to the high line on Building 46. Each line will be physically isolated using a blank placed in the line.
- Fire water line access fire water line by excavating a trench up to eight (8) feet deep at Building 46. The fire water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Sanitary sewer access the sanitary sewer line by excavating a trench up to eight (8) feet deep at Building 46. The sanitary sewer line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Electric isolate the electric conduit line feeding out of Building 31A to Building 46 and air gap all lines into building.

Building 31A

- Domestic water access domestic water by excavating one trench up to eight
 (8) feet deep on the east side of the Building 31A. The domestic water line will
 be physically isolated using a blank placed in the line. The excavation will be
 backfilled upon completion.
- Steam and condensate line access the steam and condensate lines (one line for each) using a manlift to the high line on Building 31A. Each line will be physically isolated using a blank placed in the line.
- Fire water line access fire water line by excavating one trench up to eight (8) feet deep on the east side of Building 31A. The fire water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Sanitary sewer The sanitary sewer line will be physically isolated using a blank placed in the line. Access the line through Manhole 103.
- Normal Electric air gap all lines feeding into Building 31A HPG located in the electrical manholes from the Building 11 substation.
- Emergency Power air gap all lines and control cables feeding out of Building 31A electric into electrical manholes.

At the completion of facility isolation activities a Facility Isolation Turnover package will be prepared documenting the location of all utility isolations.

R1-F02-047

9.2) Quantification - Facility Isolation - Administration (Includes Electrical Complex)

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 5.

Table 5
Materials, Equipment, and Services

R1-
F02-
047

DESCRIPTION	BASIS	COST FOR PROJECT
Material	Miscellaneous Allowance @ \$2,000/Structure	\$12,000
Equipment	None or FEMP owned	\$ O
ODCs	Allotted in Control Account BFDP	\$ 0

10) Task #10 - Facility Isolation - East Warehouse

10.1) Plan/Scope - Facility Isolation - East Warehouse

Facility Isolation will begin after the building or component is vacated and prior to D&D activities. The East Warehouse Complex Facility Isolation consists of Component 20D and Buildings 77, 79, and 82A.

Component 20D

- Domestic water access domestic water by excavating one trench on the west side of the tower. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam and Condensate line not applicable.
- Fire Water line access fire water by excavating one trench on the west side of the tower. The fire water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Air line not applicable.
- Sanitary Sewer not applicable.

- Electric Air gap at manhole and all feeds to component.
- Fuel Gas not applicable.

Building 77

- Domestic water access domestic water by excavating one trench on the west side of the tower. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam and Condensate line not applicable.
- Fire Water line access fire water by excavating one trench on the west side of the tower. The fire water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Air line not applicable.
- Sanitary Sewer not applicable.
- Electric Air gap at manhole and all feeds to component.
- Fuel Gas not applicable.

Building 79

- Domestic water access domestic water by excavating one trench on the west side of the tower. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam and Condensate line not applicable.
- Fire Water line access fire water by excavating one trench on the west side of the tower. The fire water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Air line not applicable.
- Sanitary Sewer not applicable.
- Electric Air gap at manhole and all feeds to component.
- Fuel Gas not applicable.

Building 82A

- Steam and condensate line access the steam and condensate lines (one line for each) using a manlift to the high line on Building 82A. Each line will be physically isolated using a blank placed in the line.
- Domestic water access domestic water by excavating one trench on the south side of Building 82A. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Fire water line access fire water lines (two lines) by excavating trenches (two trenches) on the north and south side of Building 82A. The fire water lines will

be physically isolated using a blank placed in each line. The excavations will be backfilled upon completion.

- Sanitary sewer access the sanitary sewer line by excavating a trench on the south side of Building 82A. The sanitary sewer line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Air line not applicable.
- Fuel Gas not applicable.
- Electric Air gap at manhole and air gap all feeds into building.

At the completion of facility isolation activities a Facility Isolation Turnover package will be prepared documenting the location of all utility isolations.

10.2) Quantification - Facility Isolation - East Warehouse

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 4.

Table 4
Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT
Material	Miscellaneous Allowance @ \$2,000/Structure	\$ 8,000
Equipment	None or FEMP owned	\$ 0
ODCs	Allotted in Control Account BFDP	\$ 0

11) Task #11 - Facility Isolation - Miscellaneous Structures

11.1) Plan/Scope - Facility Isolation - Miscellaneous Structures

Facility Isolation will begin after the building or component is vacated and prior to D&D activities.

Component 5F (Plant 5 Covered Storage Pad)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric Isolated.

Building 12E (Maintenance Storage Shed)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric not applicable.

Building 12F (Maintenance Storage Shed)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric not applicable.

Building 12G (Restored Area Maintenance Building)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Component 16B (Electrical Substation)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.

- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Component 16C (Electrical Panels & Transformer)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Component 16F (Trailer Substation #1)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Component 16G (Trailer Substation #2)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Component 20E (Well House #1)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Component 20F (Well House #2)

- Domestic water not applicable.
- Cooling water supply and return not applicable.

- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Component 20G (Well House #3)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Component 22B (Storm Sewer Lift Station)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Component 22D (Scale House & Weigh Scale)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Component 23 (Meteorological Tower)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Component 25C (Sewer Lift Station Building)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer –access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering building.

Component 26C (Main Electrical Substation Riser/Strainer House)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Buildings 28E (Guard Post at OSDF South Entrance)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Building 28G (Guard Post NW of Building 45)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Building 28H (Guard Post South of K-65 Area)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Building 28J (Security Checkpoint - South Access Road)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Building 28K (Security Checkpoint - E. Parking Lot)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Building 28L (Guard Post - N. Construction Access Road)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Building 28M (Guard Post on "F" Street)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.

• Electric - air gap all lines entering building.

Building 30D (Sampling Line Processing)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Building 50 (Maintenance Storage Building)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric not applicable.

Building 52A (RTRAK Building)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Building 52B (ASTD SCEP Building)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric not applicable.

Building 60 (Quonset Hut #1)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.

- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Building 61 (Quonset Hut #2)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Building 62 (Quonset Hut #3)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Building 68 (Pilot Plant Warehouse)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Building 93A (Southwest Boiler House)

- Domestic water not applicable.
- Cooling water supply and return access cooling water supply and return lines (one line for each) by excavating one trench up to eight (8) feet deep. Each cooling water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Steam line, condensate line and fuel gas line access the steam, condensate and fuel gas lines (one line for each) using a manlift to the high line. Each line will be physically isolated using a blank placed in the line.
- Fire water line access fire water line by excavating two trenches up to eight
 (8) feet. The fire water line will be physically isolated using a blank placed in

each of the two line locations. The excavations will be backfilled upon completion.

- Fuel Gas purge fuel gas line with inert gas, test, and air gap line entering building.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Component G-008 (Pipe Bridges)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return access cooling water supply and return lines (one line for each) by excavating one trench up to eight (8) feet deep. Each cooling water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Steam line, condensate line and fuel gas line access the steam, condensate and fuel gas lines (one line for each) using a manlift to the high line. Each line will be physically isolated using a blank placed in the line.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Fuel Gas purge fuel gas line with inert gas, test, and air gap line entering building.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering pipebridge.

Building TS-08 (Environ. Monitor. Equip. Storage)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Trailer T1 (FF)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T2 (Rad Safety)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T3 (Wise Construction)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T4 (Multimedia Visual Storage)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T5 (FF Construction)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T6 (Restrooms)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T7 (FF)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T8 (Wise Construction)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T12 (CRU4-DLS)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T17 (FF)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T18 (Break Trailer)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T19 (Rad Safety)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T23 (10 Plex)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.

- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T24 (7 Plex - North)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T25 (7 Plex - South)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T26 (Waste Management)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T29 (Computer)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T30 (Computer)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T33 (Shipping Office)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T34 (FF)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.

Electric – air gap all lines entering trailer.

Trailer T35 (FF)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T36 (Heavy Equipment Operators)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T40 (Thorium Overpack)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T41 (Waste Certification - OA)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T42 (Respirator Washing Facility)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.

- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T43 (Restoration)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T44 (FF Maintenance)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T45 (Environmental Monitoring)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T46 (Environmental Monitoring)

- Domestic water not applicable.
- Cooling water supply and return not applicable.

- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T49 (Bio-Assay Semi-Trailer)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T50 (Rad Safety)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T57 (Rad Safety)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T58 (Construction Office)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T59 (FF Waste Management)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T60 (Environmental Monitoring)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T61 (Startup Group)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T62 (Startup Group)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T65 (Plant 1 Pad MC&A Office)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.

Electric – air gap all lines entering trailer.

Trailer T66 (RIMIA Tri-Plex)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T67 (Rad. Tech.)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T68 (CRU1 Office)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T69 (Control Point - RIMIA)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T71 (Safe Shutdown)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T72 (Safe Shutdown)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T74 (ARASA Changeout Facility)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T75 (Multimedia Services)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T82 (Capital Project)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T83 (Capital Project)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T84 (Capital Project)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.

- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T85 (Capital Project)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T86 (Capital Project)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T87 (Capital Project)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T89 (WPA Men's Changeout)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer

line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.

• Electric – air gap all lines entering trailer.

Trailer T90 (WPA Women's Changeout)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T91 (WPA Men's Changeout)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T92 (WPA Breakroom)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T93 (Radiation Control Unit Quad)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T94 (Radiation Control Unit Quad)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T95 (Radiation Control Unit Quad)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight
 (8) feet. The fire water line will be physically isolated using a blank placed in

- each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T96 (Radiation Control)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T97 (FF Office - CRU4)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T98 (OSDF)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T100 (FF Office)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T103 (Storage)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T108 (IAWWTF)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T109 (IAWWTF)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T117 (CRU4 Construction Support Office)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T118 (CRU4 Support Office)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.

Electric – air gap all lines entering trailer.

Trailer T119 (Restrooms)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T121 (FF Office)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T122 (Storage)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T127 (OEPA - Part of T68)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T128 (Mixed Waste)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T129 (OEPA - Part of T68)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T130 (Breakroom)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T131 (Breakroom)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T132 (Kelchner Office)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.

- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T135 (Boiler Maintenance)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T138 (Southern Waste Unit Site Prep. Grp.)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.\
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T139 (Southern Waste Unit Site Prep. Grp.)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T141 (Maintenance Storage)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T142 (Maintenance Storage)

- Domestic water not applicable.
- Cooling water supply and return not applicable.

- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T164 (FF Training)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T165 (FF Training)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T166 (Industrial Relations)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.

Electric – air gap all lines entering trailer.

Trailer T167 (Industrial Relations)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T168 (ARASA Contractor)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T169 (ARASA Contractor)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T170 (ARASA Contractor)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T171 (ARASA Contractor)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T172 (FCNDP)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T173 (FCNDP)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.

- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T174 (FCNDP)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T175 (FCNDP)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T176 (FCNDP)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T177 (FCNDP)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T178 (FCNDP)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T179 (FCNDP)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T181 (FF Office)

Domestic water – not applicable.

- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T182 (FF Office)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T183 (FF Office)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line access fire water line by excavating two trenches up to eight (8) feet. The fire water line will be physically isolated using a blank placed in each of the two line locations. The excavations will be backfilled upon completion.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T186 (OSDF Office Trailer)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.

- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T191 (Breakroom/Cooldown)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T301 (IT Corp.)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T305 (Environmental Monitoring)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T306 (Environmental Monitoring)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T312 (Cell 1 Personal Cool Down)

- Domestic water not applicable.
- Cooling water supply and return not applicable.

- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T313 (ARASA Admin. Office "A")

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T314 (ARASA Admin. Office "B")

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T315 (ARASA Laboratory Office)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T316 (ARASA Laboratory "A")

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.

• Electric - air gap all lines entering trailer.

Trailer T317 (ARASA Laboratory "B")

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T318 (ARASA MHB/RCLO Pow. Mod. Bld)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T319 (ARASA Breakroom)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T320 (ARASA Laun./Resp. wash facility)

- Domestic water access domestic water by excavating one trench up to eight (8) feet deep. The domestic water line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer access each sanitary sewer (5 feeds) by excavating two trenches up to eight (8) feet deep (one for each sewer line). Each sanitary sewer line will be physically isolated using a blank placed in the line. Each excavation will be backfilled upon completion.
- Electric air gap all lines entering trailer.

Trailer T321 (ARASA MHB Rad. Cont. Trailer)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T322 (ARASA Supervisor's Office)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T323 (ARASA Control Room)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T325 (ARASA GCS/WTS Pow. Mod. Bldg)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T326 (ARASA Cont. Emissions Mon. Tr.)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.

- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T327 (Weigh Scale Ticket Office)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T330 (Doffing Trailer)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T502 (IT Corp. ARASA)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T505 (Facilities Shutdown Break Trailer)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T506 (Office)

- Domestic water not applicable.
- Cooling water supply and return not applicable.

- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T512 (Break- M. Ravenscraft)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T513 (Construction Coordinators)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T514 (Construction – Conference Room)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T520 (S&W Office)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T529 (Storage)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T540 (Triplex - Porter Breakroom)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T603 (Storage - Semi Trailer)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T604 (Maintenance Storage Semi Trailer)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

Trailer T608 (Break Trailer - Waste Management)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.

- Sanitary Sewer not applicable.
- Electric air gap all lines entering trailer.

At the completion of facility isolation activities a Facility Isolation Turnover package will be prepared documenting the location of all utility isolations.

11.2) Quantification - Facility Isolation - Miscellaneous Structures

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 5.

Table 5
Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT
Material	Miscellaneous Allowance @ \$500 per Structure (170 structures)	\$ 34,000
Equipment	None or FEMP owned	\$ O
ODCs	Allotted in Control Account BFDP	\$ O

R1-F02-047

12)Task #12 = Facility Isolation = Building 64/65

12.1) Plan/Scope - Facility Isolation - Building 64/65

Building 64 (Thorium Warehouse)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

Building 65 (Old Plant 5 Warehouse)

- Domestic water not applicable.
- Cooling water supply and return not applicable.
- Steam line, condensate line and fuel gas line not applicable.
- Fire water line not applicable.
- Sanitary Sewer not applicable.
- Electric air gap all lines entering building.

12.2) Quantification - Facility Isolation - Building 64/65

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 5.

Table 5 Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT
Material	Miscellaneous Allowance @ \$1,000/Structure	\$ 2,000
Equipment	None or FEMP owned	\$ 200
ODCs	Allotted in Control Account BFDP	\$0

13) Task #13 - Facility Isolation - Plant 1, Phase II

13.1) Plan/Scope - Facility Isolation - Plant 1, Phase II

Facility Isolation will begin after the building or component is vacated and prior to D&D activities.

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician,

PBS-02, DEMOLITION AND DECONTAMINATION CLOSURE PLAN BASIS OF ESTIMATE 2503-PL-0010, Revision 1 September 2001

Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

At the completion of facility isolation activities a Facility Isolation Turnover package will be prepared documenting the location of all utility isolations.

Building 1B

- Potable water not applicable
- Treated water not applicable
- Fire water not applicable
- Steam and Condensate not applicable
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary sewers not applicable
- Electric air gap the supply line to Building 1B located in Building 20A.
- Fuel Gas not applicable
- Miscellaneous process lines on high line not applicable

Building 20A

- Potable water not applicable
- Treated water not applicable
- Steam and Condensate not applicable
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary sewers not applicable
- Electric air gap all lines feeding into the building and the supply line to Building 20A located in the electrical manholes.
- Fuel Gas not applicable
- Miscellaneous process lines on high line not applicable

Building 30A

- Treated water not applicable
- Fire water not applicable
- Steam and condensate line access the steam and condensate lines using a manlift to the highline. Each line will be physically isolated using a blank placed in the line.
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary sewers each sanitary sewer line will be physically isolated using a blank placed in the line. Access each line through area manholes.

- Electric air gap all lines feeding into the building and the supply line to Building 30A located in the electric manholes.
- Fuel Gas not applicable
- Miscellaneous process lines on high line not applicable

Component 56A

- Potable water not applicable
- Treated water not applicable
- Fire water access the fire water line by excavating a trench up to eight (8) feet deep. The line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Steam and Condensate not applicable
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary Sewers not applicable
- Electric air gap all lines feeding into the building and the supply line to Building 56A located in the electric manholes.
- Fuel Gas not applicable
- Miscellaneous process lines on high line not applicable

Building 71

- Potable water not applicable
- Treated water not applicable
- Fire water access the fire water line by excavating a trench up to eight (8) feet deep. The line will be physically isolated using a blank placed in the line. The excavation will be backfilled upon completion.
- Steam and condensate line & air access the steam and condensate & air lines using a manlift to the highline. Each line will be physically isolated using a blank placed in the line.
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary sewers not applicable
- Electric air gap all lines feeding into the building and the supply line to Building 71 located in the electric manholes.
- Fuel Gas not applicable
- Miscellaneous process lines on high line not applicable

Components TS-04, TS-05 and TS-06

- Potable water not applicable
- Treated water not applicable
- Fire water not applicable

- Steam and condensate line & air not applicable
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary sewers not applicable
- Electric –air gap all lines feeding into the building and the supply line to Components TS-04, Ts-05 and TS-06 located in the electric manholes.
- Fuel Gas not applicable
- Miscellaneous process lines on high line not applicable

Component 16N

- Potable water not applicable
- Treated water not applicable
- Fire water not applicable
- Steam and condensate line & air not applicable
- Air not applicable
- Cooling water supply and Return not applicable
- Sanitary sewers not applicable
- Electric –Air gap at manhole
- Fuel Gas not applicable
- Miscellaneous process lines on high line not applicable

13.2) Quantification - Facility Isolation - Plant 1, Phase II

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 4.

Table 4
Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT	
Material	Miscellaneous Allowance @ \$2,000/Structure	\$ 12,000	
Equipment	None or FEMP owned	\$ O	
ODCs	Allotted in Control Account BFDP	\$ O	

14) Task #14 - Facility Isolation - Plant 5

14.1) Plan/Scope - Facility Isolation - Plant 5

Facility Isolation work is completed. The status is as follows:

Building 5A

- Domestic water Isolated
- Cooling water supply and return Isolated
- Steam line, condensate line and fuel gas line -Isolated
- Fire water line Isolated
- Sanitary Sewer Isolated
- Electric Isolated
- Fuel Gas Isolated.
- Air line Isolated.

Building 5D

- Domestic water Isolated
- Cooling water supply and return Isolated
- Steam line, condensate line and fuel gas line Isolated
- Fire water line Isolated
- Sanitary Sewer Isolated
- Electric Isolated
- Fuel Gas Isolated.
- Air line Isolated.

At the completion of facility isolation activities a Facility Isolation Turnover package was prepared documenting the location of all utility isolations.

14.2) Quantification - Facility Isolation - Plant 5

No Facility Isolation is required.

15) Task #15 - Facility Isolation - Plant 6

15.1) Plan/Scope - Facility Isolation - Plant 6

No facility Isolation is required. The status of the Plant 6 utilities are as follows:

Building 6A

- Domestic water Isolated
- Fire water Isolated
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return Isolated
- Sanitary Sewers Isolated
- Electric Isolated
- Fuel Gas Isolated.
- Air line Isolated.

Building 6B

- Domestic water Isolated
- Fire water Isolated
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return Isolated
- Sanitary Sewers Isolated
- Electric Isolated
- Fuel Gas Isolated.
- Air line Isolated.

Building 6C

- Domestic water Isolated
- Fire water Isolated
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return Isolated
- Sanitary Sewers Isolated
- Electric Isolated
- Fuel Gas Isolated.
- Air line Isolated.

Building 6D

- Domestic water Isolated
- Fire water Isolated
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return Isolated
- Sanitary Sewers Isolated

- Electric Isolated
- Fuel Gas Isolated.
- Air line Isolated.

Building 6E

- Domestic water Isolated
- Fire water Isolated
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return Isolated
- Sanitary Sewers Isolated
- Electric Isolated
- Fuel Gas Isolated.
- Air line Isolated.

Building 6F

- Domestic water Isolated
- Fire water Isolated
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return Isolated
- Sanitary Sewers Isolated
- Electric Isolated
- Fuel Gas Isolated.
- Air line Isolated.

Building 6G

- Domestic water Isolated
- Fire water Isolated
- Steam and Condensate Isolated
- Air Isolated
- Cooling water supply and Return Isolated
- Sanitary Sewers Isolated
- Electric Isolated
- Fuel Gas Isolated.
- Air line Isolated.

At the completion of facility isolation activities a Facility Isolation Turnover package was prepared documenting the location of all utility isolations.

15.2) Quantification - Facility Isolation - Plant 6

No Facility Isolation is required.

R1-F02-027 16) Task #16 - Facility Isolation - Area 3A

16.1) Plan/Scope - Facility Isolation - Area 3A

Facility Isolation of Area 3A will begin after all structures in the excavation area are isolated.

Area 3A

- Domestic Water isolated
- Fire Water air gap at excavation perimeter
- Sanitary Sewers isolated
- Electric air gap at excavation perimeter

16.2) Quantification - Facility Isolation - Area 3A

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 4.

Table 4
Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT
Material	•	\$ 2,000
	\$2,000/Excavation Area	April 18
		\$
ODCs	Allotted in Control Account	\$ 0
	BFDP	

17) Task #17 - Facility Isolation - Area 3B

17.1) Plan/Scope - Facility Isolation - Area 3B

Facility Isolation of Area 3B will begin after all structures in the excavation area are isolated.

Area 3B

- Domestic Water = air gap at excavation perimeter
- Fire Water air gap at excavation perimeter
- Sanitary Sewers air gap at excavation perimeter
- Electric air gap at excavation perimeter

17.2) Quantification - Facility Isolation - Area 3B

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 4.

Table 4 Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT
Material	Miscellaneous Allowance @ \$2,000/Excavation Area	\$ 2,000
Equipment	None or FEMP owned	Sisks to O.S. P. Season Section
ODCs	Allotted in Control Account BFDP	\$ ************************************

R1-F02-027 18) Task #18 = Facility Isolation = Area 4A

18.1) Plan/Scope - Facility Isolation - Area 4A

Facility Isolation of Area 4A will begin after all structures in the excavation area are isolated.

Area 4A

- Domestic Water air gap at excavation perimeter
- Fire Water air gap at excavation perimeter
- Sanitary Sewers air gap at excavation perimeter
- Electric air gap at excavation perimeter

18.1) Quantification - Facility Isolation - Area 4A

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 4.

Table 4
Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT
Material	Miscellaneous Allowance @ \$2,000/Excavation Area	\$ 2,000
Equipment	None or FEMP owned	4 \$ 0 5
ODCs	Allotted in Control Account BFDP	\$ 0

R1-F02-027

19) Task #19 - Facility Isolation - Area 4B

19.1) Plan/Scope = Facility Isolation = Area 4B

Facility Isolation of Area 4B will begin after all structures in the excavation area are isolated.

Area 4B

- Domestic Water air gap at excavation perimeter
- Fire Water = air gap at excavation perimeter
- Sanitary Sewers air gap at excavation perimeter
- Electric air gap at excavation perimeter

19.2) Quantification - Facility Isolation - Area 4B

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 4.

Table 4
Materials, Equipment, and Services

DESCRIPTION Material	Miscellaneous Allowance @	COST FOR PROJECT
		0.000 Mark 10.000
Equipment 1.	None or FEMP owned	\$ 0 P
ODCs	Allotted in Control Account	\$2-70
ODCS	BEDP	

R1-F02-027

20) Task #20 - Facility Isolation - Area 5

20.1) Plan/Scope - Facility Isolation - Area 5

Facility Isolation of Area 5 will begin after all structures in the excavation area are isolated.

Area 5

- Domestic Water = air gap at excavation perimeter
- Fire Water = air gap at excavation perimeter
- Sanitary Sewers = air gap at excavation perimeter
- Electric air gap at excavation perimeter

20.2) Quantification - Facility Isolation - Area 5

The duration of Facility Isolation activities is identified in Section 2.0.

Planning of Facility Isolation activities will be by the appropriate Electrical; Civil, and Piping Engineer. Facility Isolation field work will be conducted by FAT&LC personnel, such as carpenters, electricians, Hazwat laborers; Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician,

Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Material, Equipment, and Other Direct Costs (ODCs) for this task is identified in Table 4.

Table 4 Materials, Equipment, and Services

DESCRIPTION	BASIS	COST FOR PROJECT
Material	Miscellaneous Allowance @	
	\$2,000/Excavation Area	
Equipment	None or FEMP owned	
ODCs	Allotted in Control Account	\$ 0
	BFDP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

- 1.5.2 BFUD2 Utility Redistribution
- 1) Task #1 Utility Redistribution Plant 2
- 1.1) Plan/Scope Utility Redistribution Plant 2

 No utility redistribution is required.
- 1.2) Quantification Utility Redistribution Plant 2No utility redistribution is required.
- 2) Task #2 Utility Redistribution Plant 3
- 2.1) Plan/Scope Utility Redistribution Plant 3

 No utility redistribution is required.
- 2.2) Quantification Utility Redistribution Plant 3

 No utility redistribution is required.
- 3) Task #3 Utility Redistribution General Sump
- 3.1) Plan/Scope Utility Redistribution General Sump
 No utility redistribution is required for the General Sump.

3.2) Quantification - Utility Redistribution - General Sump

No utility redistribution is required for the General Sump.

- 4) Task #4 Utility Redistribution Plant 8
- 4.1) Plan/Scope Utility Redistribution Plant 8

No utility redistribution is required.

4.2) Quantification - Utility Redistribution - Plant 8

No utility redistribution is required.

R1-F02-047 5) Task #5 - Utility Redistribution - Health and Safety Building

- 5.1) Plan/Scope Utility Redistribution Health and Safety Building
 - Reroute telephone feed to Building 82A.
 - Reroute telephone fiber optic to Hut #1.
 - Reroute telephone and fiber optic to Building 53B (Invivo).
 - Convert Building 53B to electric heat.
 - Reroute power to T71 and T72.
 - Reroute fire alarms to Hut #6.

Provide portable generator hook-up at Building 25C to provide emergency electrical power for sewage lift station. Provide a manual throwover switch.

5.2) Quantification - Utility Redistribution - Health and Safety Building

The duration of Utility Redistribution activities are identified in Section 2.0.

Planning of Utility Redistribution activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by Building Trades personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician. QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0.

Utility Redistribution activities will be conducted by projectized and matrixed Fluor Fernald personnel as identified in Section 3.0.

ODC's are provided in the Project Management Facility D&D Control Account BFDP. The materials and services that are required to support the Utility Redistribution are identified in Table 4.

Table 4 Utility Redistribution

ITEM	BASIS	COST
Building 53A		79,242-79,643,463,433
800 Square Foot Pre-Fab Building	\$10,000	\$10,000.
600 Pair Cable	3,000 Feet @ \$5/Foot	\$15,000
15 – 45 Foot Poles	15 @ \$700/Pole	\$10,500
100 Pair Cable	600 Feet @ \$2/Foot	\$ 1,200
1,000 Feet 480v Wire	1,000 Feet @ \$2/Foot	\$ 2,000
Miscellaneous Materials	Assume \$5,000	\$ 5,000

6) Task #6 - Utility Redistribution - Liquid Storage

6.1) Plan/Scope - Utility Redistribution - Liquid Storage

Utility Redistribution and Facility Isolation consists of tasks that are performed prior to D&D of a building or component.

Refeed the electric panel west of Building 45A from 13.2 kv transformer feeding extraction well. Reroute telephone cables out of Building 45A and into T58 and redistribute to other trailers. Install fire alarm panel in T58 and reroute cables from trailers to this panel.

6.2) Quantification - Utility Redistribution - Liquid Storage

The duration of Utility Redistribution activities are identified in Section 2.0.

Planning of Utility Redistribution activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by Building Trades personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0. Utility Redistribution activities will be conducted by projectized and matrixed Fluor Fernald personnel as identified in Section 3.0.

ODC's are provided in the Project Management Facility D&D Control Account BFDP. The materials and services that are required to support the Utility Redistribution are identified in Table 4.

Table 4
Utility Redistribution

ITEM	BASIS	COST
13.2 Transformer Bank	\$6,000	\$6,000
Switches	\$2,500	\$2,500
Power Pole (1)	\$ 700	\$ 700
Misc. Materials	\$5,000	\$5,000

7) Task #7 - Utility Redistribution - Pilot Plant

7.1) Plan/Scope - Utility Redistribution - Pilot Plant

No utility redistribution is required.

7.2) Quantification – Utility Redistribution – Pilot Plant

No utility redistribution is required.

8) Task #8 - Utility Redistribution - Laboratory

8.1) Plan/Scope - Utility Redistribution - Laboratory

Reroute fire alarms cables from trailers to fire alarm panel in T-76.

8.2) Quantification - Utility Redistribution - Laboratory

The duration of Utility Redistribution activities are identified in Section 2.0.

Planning of Utility Redistribution activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by Building Trades personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0. Utility Redistribution activities will be conducted by projectized and matrixed Fluor Fernald personnel as identified in Section 3.0.

ODC's are provided in the Project Management Facility D&D Control Account BFDP. The materials and services that are required to support the Utility Redistribution are identified in Table 4.

Table 4 Utility Redistribution

ITEM	BASIS	COST
6 pair cable	800 feet @ \$2	\$ 1,600
Miscellaneous Hardware	Assume \$200	\$ 200

9) Task #9 - Utility Redistribution - Administration (Includes Electrical Complex)

9.1) Plan/Scope - Utility Redistribution - Administration (Includes Electrical Complex)

Utility Redistribution and Facility Isolation consists of tasks that are performed prior to D&D of a building or component.

Building 11 (Service Building) Utility Redistribution

To maintain T-24, T-25, T-43, T-45, T-46 operational:

- Reroute electric from cooling tower overhead transformer feed
- Reroute telephone from new telecommunications building
- Reroute alarm from T-77 to maintain 25C (sewage lift station) operational:
- Reroute electric feed to Building 25C (Sewage Lift Station) from Main Substation transformer
- Reroute electricity to met tower.

Building 14A (Administration Building) Utility Redistribution

To maintain site telephone service install new Telephone room (incoming and outgoing cable):

- Reroute to support AWWT and Area 7 trailers/buildings.
- Install new self contain pre-fab building located north of T-77.
- Reroute incoming cable via overhead poles from north entrance road to new splice box west of 14A. 15 new poles needed.
- Reroute outgoing cable via overhead from new building to closest overhead tie points (approximately 6 points) located north of T-77.

- Reroute incoming fiberoptic cable from 14A to new building.
- Reroute satellite equipment wiring to new building.
- New building requires electric, fire alarm,
- Reroute telecommunications to support Silos and ARASA. Reroute 600 pair 24-gauge wire and 12-strand fiberoptic cable from new building by existing poles along 30/45 building access road to existing Hut #3 in Silos area.
- Splice cable out of 14A and splice into new building.

To maintain Taco trailers operational:

 Domestic Water needs cross tie outside southwest corner of Admin. Building. (coordinate with Facility Shutdown)

To maintain T-23 operational:

- Reroute electric from cooling tower overhead transformer feed
- Reroute telephone from new telecommunications building
- Reroute alarm from new telephone building
- Reroute signals and equipment from weather station met tower to new telephone building.

9.2) Quantification - Utility Redistribution - Administration (Includes Electrical Complex)

The duration of Utility Redistribution activities are identified in Section 2.0.

Planning of Utility Redistribution activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by Building Trades personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0. Utility Redistribution activities will be conducted by projectized and matrixed Fluor Fernald personnel as identified in Section 3.0.

ODC's are provided in the Project Management Facility D&D Control Account BFDP. The materials and services that are required to support the Utility Redistribution are identified in Table 4.

Table 4
Utility Redistribution

ITEM	BASIS	COST
Building 14A		
800 Square Foot Pre-Fab Building	\$10,000	\$10,000
600 Pair Cable	3,000 Feet @ \$5/Foot	\$15,000
15 - 45 Foot Poles	15 @ \$700/Pole	\$10,500
100 Pair Cable	600 Feet @ \$2/Foot	\$ 1,200
1,000 Feet 480v Wire	1,000 Feet @ \$2/Foot	\$ 2,000
Miscellaneous Materials	Assume \$5,000	\$ 5,000
Building 11		
1,000 Feet 480v Wire	1,000 Feet @ \$2/Foot	\$ 2,000
Miscellaneous Materials	Assume \$1,500	\$ 1,500
Building 53B		
Electric Heaters	\$2,000	\$ 2,000
4 – 45 Foot Poles	4 @ \$700/Pole	\$ 2,800
Water Heater	\$700	\$ 700
Miscellaneous Materials	Assume \$1,500	\$ 1,500
Building 31A		
Transfer Switch	\$1,000	\$ 1,000
Miscellaneous Switch	\$ 800	\$ 800
Miscellaneous Materials	\$ 500	\$ 500

10) Task #10 - Utility Redistribution - East Warehouse

10.1) Plan/Scope - Utility Redistribution - East Warehouse

No utility redistribution required.

10.2) Quantification - Utility Redistribution - East Warehouse

No utility redistribution required.

11) Task #11 - Utility Redistribution - Miscellaneous Structures

11.1) Plan/Scope - Utility Redistribution - Miscellaneous Structures

R1-F02-027

Utility redistribution is required prior to D&D of Buildings 22B, 25C, 16B, and 93C and soil excavation of Area 4A. No other utility redistribution is necessary.

Prior to demolition of Building 22B sewerage lift station, install new lift station north of Taco Trailers to collect sewerage from remaining Area 5 Trailers and pump into existing line to the sewerage treatment plant.

PBS-02, DEMOLITION AND DECONTAMINATION CLOSURE PLAN BASIS OF ESTIMATE 2503-PL-0010, Revision 1 September 2001

Prior to demolition of Building 25C sewerage lift station, install new lift station to collect sewerage from Silo Area and AWWT and pump to Sewerage Treatment Plant.

Prior to D&D of Building 16B (Substation), refeed the electrical power supply to the main parking lot lights and main entrance road lighting system.

Prior to D&D of Building 93C (Boiler House), refeed electrical power to two (2) air compressors.

11.2) Quantification - Utility Redistribution - Miscellaneous Structures

The duration of Utility Redistribution activities are identified in Section 2.0.

Planning of Utility Redistribution activities will be by the appropriate Electrical, Civil, and Piping Engineer. Facility Isolation field work will be conducted by Building Trades personnel, such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0. Utility Redistribution activities will be conducted by projectized and matrixed Fluor Fernald personnel as identified in Section 3.0.

ODC's are provided in the Project Management Facility D&D Control Account BFDP. The materials and services that are required to support the Utility Redistribution are identified in Table 5.

Table 5
Utility Redistribution

ITEM	BASIS	ITEM COST
Building 22B		
Sewerage Lift Station	\$ 5,000	\$ 5,000
13.2 kv Transformer Bank	\$ 6,000	\$ 6,000
Switches	\$ 2,500	\$ 2,500
400A Disc. Switch	\$ 800	\$ 800
Miscellaneous Hardware	Assume \$ 2,000	\$ 2,000
300 feet 4 inch HPDE	300 feet @ \$8/Foot	\$ 2,400
Building 25C		
Sewerage Lift Station	\$ 5,000	\$ 5,000
Disc. Switch	\$ 800	\$ 800
200 feet 4 inch HPDE	200 feet @ \$8/Foot	\$ 1,600
Miscellaneous Hardware	\$ 2,000	\$ 2,000
Building 26C		
Miscellaneous Material	\$ 800	\$ 800
Building 93A		
Disc. Switch	\$ 2,000	\$ 2,000
Miscellaneous Material	\$ 1,000	\$ 1,000

R1-F02-047 12) Task #12 - Utility Redistribution - Building 64/65

12.1) Plan/Scope - Utility Redistribution - Building 64/65

No utility redistribution is required.

12.2) Quantification - Utility Redistribution - Building 64/65

No utility redistribution is required.

- 13) Task #13 Utility Redistribution Plant 1, Phase II
- 13.1) Plan/Scope Utility Redistribution Plant 1, Phase II

No utility redistribution is required.

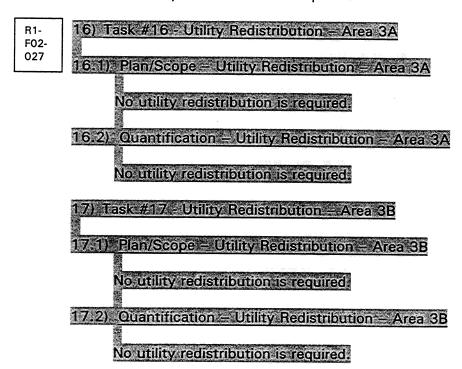
13.2) Quantification - Utility Redistribution - Plant 1, Phase II

No utility redistribution is required.

- 14) Task #14 Utility Redistribution Plant 5
- 14.1) <u>Plan/Scope Utility Redistribution Plant 5</u>No utility redistribution is required.
- 14.2) <u>Quantification Utility Redistribution Plant 5</u>

 No utility redistribution is required.
- 15) Task #15 Utility Redistribution Plant 6
- 15.1) Plan/Scope Utility Redistribution Plant 6

 No utility redistribution is required.
- 15.2) <u>Quantification Utility Redistribution Plant 6</u>No utility redistribution is required.



R1-F02-027

18) Task #18 - Utility Redistribution - Area 4A

18.1) Plan/Scope - Utility Redistribution - Area 4A

Prior to excavation in Area 4A (if Plant 1 Pad is still required), refeed substation in Building 20A via overhead 13.2 ky pole line.

18.2) Quantification - Utility Redistribution - Area 4A

The duration of Utility Redistribution activities are identified in Section 2.0.

Planning of Utility Redistribution activities will be by the appropriate Electrical; Civil, and Piping Engineer. Facility Isolation field work will be conducted by Building Trades personnel; such as carpenters, electricians, Hazwat laborers, Millwrights, and pipefitters as applicable, with the appropriate H&S technician, QA/QC technician, Rad technician, and managerial supervision. Those personnel that are projectized or matrixed to support the project and the estimated FTEs are identified in Section 3.0. Utility Redistribution activities will be conducted by projectized and matrixed Fluor Fernald personnel as identified in Section 3.0.

ODC's are provided in the Project Management Facility D&D Control Account BFDP. The materials and services that are required to support the Utility Redistribution are identified in Table 5.

Table 5
Utility Redistribution

ITEM **	BASIS	ITEM COSTA
Excavation Area 4A		
9 Power Poles	9 @ \$700 each	\$ 6,300
12 Crossarms	12 @ \$58 each	\$ 600
3 Fuse Cut Switches	3 @ \$800 each	\$ 2,400
1 set 3 Φ OVHD Switch	\$4,000	\$.4,000
5,000 feet OVHD #2 ACSR "Sparrow"	\$5,000 @ \$.60/f66t	\$3,000
4 Anchor + 60 Y	4 @ \$100 each	\$ 400
3 13.2 kv underground cable	3 @ \$500 eacg	\$ 1,500
300 feet 13.2 kv UND cable	300 feet @ \$2/foot	\$ 600
	1 ≤ 3 @ 4\$200 each //	\$ 600
Miscellaneous Material	\$ 5,000	\$ 5,000

19.1) Plan/Scope — Utility Redistribution — Area 4B

No utility redistribution is required.

19.2) Quantification — Utility Redistribution — Area 4B

No utility redistribution is required.

20) Task #20 — Utility Redistribution — Area 5

20.1) Plan/Scope — Utility Redistribution — Area 5

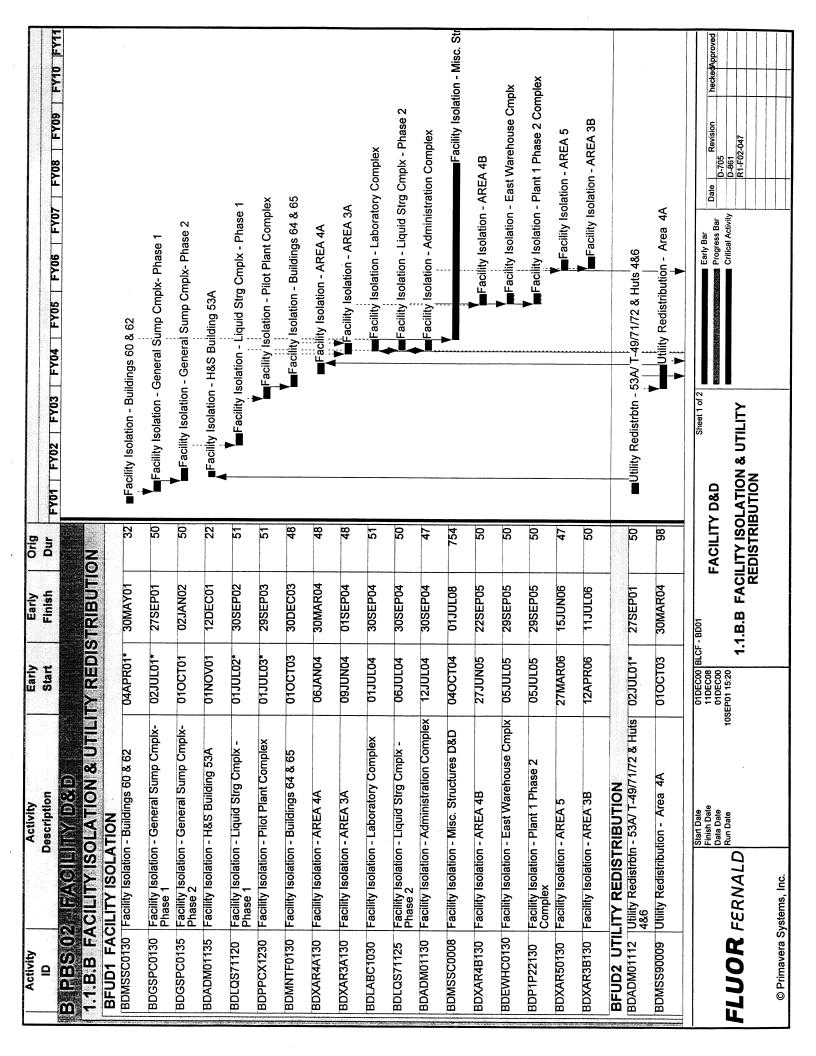
No utility redistribution is required.

20.2) Quantification — Utility Redistribution — Area 5

No utility redistribution is required.

SECTION 1

2.0 SCHEDULE



	03 FY04 FY05 FY08 FY08 FY09 EVAN		Utility Redistribution - Administration Complex	Utility Redistribution - Liquid Strg Cmplx	Utility Redistribution - Laboratory Complex	▼ ■Utility Redistribution - 22B	■Utility Redistribution - 93A	Utility Redistribution - 25C	Utility Redistribution - 26C	e of 2 Date Revision heckedApproved Date Revision heckedApproved D-705	Critical Activity
Oria	Dur FY07 FY02 FY03		137	87	70	20	51	20	51	FACILITY D&D	FACILITY ISOLATION & UTILITY REDISTRIBUTION
Early	Finish		02SEP04	02SEP04	02SEP04	30SEP04	30JUN05	21JUN06	22JUN06		
Early	Start		05JAN04	01APR04	03MAY04	06JUL04	04APR05	27MAR06	27MAR06	01DEC00 BLCF - BD01 11DEC08 01DEC00	SEP01 15:20 1.
Activity	Description	UTILITY REDISTRIBUTION	Utility Redistribution - Administration Complex	Utility Redistribution - Liquid Strg Cmplx	Utility Redistribution - Laboratory Complex	Utility Redistribution - 22B	Utility Redistribution - 93A	Utility Redistribution - 25C	Utility Redistribution - 26C	Start Date Finish Date Data Date	Run Date
Activity	9			BDLQS71115 U	BDLABC1010 L	BDMSS90006	BDMSS90003	BDMSS90015	BDMSS90012		FLUOR FERNALD © Primavera Systems, Inc.

SECTION 1 3.0 MANPOWER PLANS

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Manpower Planning Sheet (CR2)

MPS # 18801 FACILITY ISOLATION

DRIVERS	START DATE	END DATE	. 101	FY 2001 Q1 Q2 Q3	9 8	8	<u>۾</u> ۾	FY 2002 Q1 Q2 Q3	9	<u>۾</u> 8	FY 2003 Q1 Q2 Q3	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		FY 2004 Q1 Q2 Q3		2	F P	FY 2005 Q1 Q2 Q3	2	Ια	FY 2006 Q1 Q2 Q3		8
						ľ	l	l		l	ı		İ										
203 PLANT 6 D&D	10/02/2000	04/09/2002	2	×	XX	×	X XXX XXX XXX XXX XXX	×															
206 ADMIN COMPLEX D&D	10/01/2004	07/03/2006															>	>	>	***************************************	3	,	,
207 EAST WAREHOUSE D&D	10/04/2004	12/14/2004								-										{ -	*	` `	<
209 PLANT 1 PHASE II D&D	10/04/2004	10/12/2005						•									XXX XXX XXX XXX	XX	X	×			
216 Electrical Station (Garage/Heavy Equip. Bldg.)	.) 01/10/2005	03/28/2005														•	×	XX					
217 Electrical Station (Main Electrical/Substations)	3) 07/10/2006	09/28/2006																					XXX
218 General Sump Complex D&D	10/01/2001	01/07/2003					X XXX XXX XXX XXX	×	XXX	XXX	J											-	
219 General Sump (Elec. Power Center Bldg.)	04/01/2004	07/19/2004													×××								
220 Plant 2 Complex D&D	10/01/2001	04/01/2004					* *** *** *** *** *** *** *** ***	X	XX	×	×	×	×	XXX	×	,							
221 Plant 3 Complex D&D	10/01/2001	12/10/2002					XXX XXX XXX	×	××	×													
222 Plant 8 Complex D&D	10/01/2001	06/26/2003					XXX XXX XXX XXX XXX XXX	X	×	XX	×	×											
223 Liquid Storage D&D	10/01/2002	03/31/2005								XX	X	*** *** *** *** *** *** *** ***	×	XXX	XXX		X	5					
224 Lab Complex D&D	10/01/2004	10/31/2005														<u> </u>	X XXX XXX XXX XXX	×	×	×			
225 Pilot Plant Complex D&D	10/01/2003	09/27/2005											×	XXX	XXX XXX XXX XXX XXX XXX	×	XX	××	×	-			
Craft Labor Carpenter	nter		1.50		0.1	0.1	0.1	0	0 0.1	•	0	0	0.1 0.2	2 0.1	0	0.2	0	0	0	0.2 0	0	0	0.1
Administration Clerks			1.50	•	0.1	0.7	0.1	0	0 0.1	0	0	0	0.1 0.2	2 0.1	0	0.2	0	0	0	0.2	0	0	0.1
Project Controls Cost Analyst	nalyst		1.50	0	0.1	0.1	1.0	0	0.1	0	0	0	0.1 0.2	2 0.1	0	0.2	0	0	0	0.2 0	0	0	1.0
Engineering & Design Drafter/	Drafter/CAD Operator		1.60		0.1	0.1	1.0	0	0.0	0	0	0	0.1 0.2	2 0.1	0	0.2	0	0	0	0.3	0	0	0.1
Craft Labor Electrician	cian		5.40		0.3	0.3	0.3	0	0 0.3	0	0	0	0.3 0.6	6 0.3	0	9.0	0	0	0	1.5	0	0	0.3
Engineering & Design Engineer	ier		1.60		0.1		1.0	0	0.1	0	0	0	0.1 0.2	2 0.1	0	0.2	0	0	0	0.3	0	0	0.1
Engineering & Design Enginee	Engineer Electrical		1.60		-0.1	0.1	1.0	0	0.1	0		0	0.1	2 0.1	0	0.2	0	0	0 0.3	- -	0	•	0.1
Engineering & Design Enginee	Engineer Piping/Mechanic		1.60		0.1		1.0	0	0 0.1	0	0	0	0.1 0.2	2 0.1	0	0.2	•	0	0 0.3	· ·	0	0	1.0
General Labor Hazwat			4.80		0.3	0.3	0.3	0	0 0.3	0	0	0	0.3 0.6	5 0.3	0	9.0	0	0	0.0		0	0	0.3
Environmental Safety & H Industrial Hygienist Tech.	ial Hygienist Tech.		1.60		0.1	1.0	1.0	0	0.1	0	0	0	0.1 0.2	2 0.1	0	0.2	0	0	0 0.3	<u> </u>	0	0	0.1
Lab Lab Tech.	ch.		1.60		0.1		0.1	0	0.1	0	0	0	0.1 0.2	2 0.1	0	0.2	0	0	0 0.3	· -	0	0	0.1
Craft Labor Millwright	jht.		4.50		0.3	0.3	0.3	0	0 0.3	0	0	0	0.3 0.6	5 0.3	0	9:0	0	0	9'0 0	• 	•	0	0.3
Craft Labor Pipefitter	er		4.80	0	0.3	0.3	0.3	0	0 0.3	0	0	0	0.3 0.6	3 0.3	0	9.0	0	0	0.0	• 	0	0	0.3
QA/QC Tech.	Tech.		1.60	0	0.1	0.1	0.1	0	0.1	0	•	0	0.1 0.2	2 0.1	0	0.2	0	0	0 0.3		0	0	1.0
Environmental Safety & H Rad Engineer	ngineer		1.60	0	0.1	1.0	0.1	0	0.1	0	0	0	0.1 0.2	2 0.1	0	0.2	0	0	0 0.3		0	0	1.0
Environmental Safety & H Rad Tech	sch		7.10	0	0.5	0.5	9.0	0	0 0.5	0	0	0	0.5 0.8	3 0.5	0	8:0	0	0	0		0	0	9.0
Environmental Safety & H Safety Tech.	Tech.		1.60	0	0.1	0.1	0.1	0	0 0.1	0	0	0	0.1 0.2	2 0.1	0	0.2	0	0	0 0.3		0	0	1.0
Project Controls Scheduler	ıler		1.50	0	0.1	1.0	0.1	•	0 0.1	0	0	0	0.1 0.2	2 0.1	0	0.2	0	0	0 0.2		0	0	0.7
	Shee	Sheet Totals:	47.00 0.00	00:0	3.00	3.00	3.00 0.00	00.0	3.00	0.00	0.00	0.00 3.00	0 5.80	3.00	0.00	5.80 (0.00	0.00 0.00	00 8.40	00:0	0.00	0.00	3.00

Manpower Planning Sheet (CR2)

MPS # 1BB01 FACILITY ISOLATION

203 PLANT 6 D&D 10/0 206 ADMIN COMPLEX D&D 10/0 207 EAST WAREHOUSE D&D 10/0 209 PLANT 1 PHASE II D&D 10/0 216 Electrical Station (Garage/Heavy Equip. Bld 01/1 21/1 217 Electrical Station (Main Electrical/Substation 07/1 21/1 218 General Sump Complex D&D 10/0 220 Plant 2 Complex D&D 10/0 221 Plant 3 Complex D&D 10/0 222 Plant 8 Complex D&D 10/0	10/02/2000 10/01/2004 10/04/2004 10/04/2004	04/09/2002 07/03/2006																
206 ADMIN COMPLEX D&D 207 EAST WAREHOUSE D&D 209 PLANT 1 PHASE II D&D 216 Electrical Station (Garage/Heavy Equip 217 Electrical Station (Main Electrical/Subs) 218 General Sump Complex D&D 219 General Sump (Elec. Power Center Bic 220 Plant 2 Complex D&D 221 Plant 3 Complex D&D 2221 Plant 3 Complex D&D 2221 Plant 3 Complex D&D	10/01/2004 10/04/2004 10/04/2004	07/03/2006				_					_	_						
207 EAST WAREHOUSE D&D 209 PLANT 1 PHASE II D&D 216 Electrical Station (Garage/Heavy Equip 217 Electrical Station (Main Electrical/Subs) 218 General Sump Complex D&D 219 General Sump (Elec. Power Center Bit 220 Plant 2 Complex D&D 221 Plant 3 Complex D&D 222 Plant 8 Complex D&D	10/04/2004 10/04/2004					-		-										
209 PLANT 1 PHASE II D&D 216 Electrical Station (Garage/Heavy Equip 217 Electrical Station (Main Electrical/Subs) 218 General Sump Complex D&D 219 General Sump (Elec. Power Center Blc 220 Plant 2 Complex D&D 221 Plant 3 Complex D&D 222 Plant 8 Complex D&D	10/04/2004	12/14/2004			•													
216 Electrical Station (Garage/Heavy Equip 217 Electrical Station (Main Electrical/Subsl 218 General Sump Complex D&D 219 General Sump (Elec. Power Center Blc 220 Plant 2 Complex D&D 221 Plant 3 Complex D&D 222 Plant 8 Complex D&D		10/12/2005																
217 Electrical Station (Main Electrical/Subst 218 General Sump Complex D&D 219 General Sump (Elec. Power Center Bld 220 Plant 2 Complex D&D 221 Plant 3 Complex D&D	ip. Bld 01/10/2005	03/28/2005																
218 General Sump Complex D&D 219 General Sump (Elec. Power Center Bld 220 Plant 2 Complex D&D 221 Plant 3 Complex D&D 222 Plant 8 Complex D&D	station 07/10/2006	09/28/2006																
219 General Sump (Elec. Power Center Bld 220 Plant 2 Complex D&D 221 Plant 3 Complex D&D	10/01/2001	01/07/2003																
220 Plant 2 Complex D&D 221 Plant 3 Complex D&D 222 Plant 8 Complex D&D	ldg.) 04/01/2004	07/19/2004																
221 Plant 3 Complex D&D	10/01/2001	04/01/2004																
222 Plant & Complex D&D	10/01/2001	12/10/2002																
בדר יומווו ס סטווולוונע סמר	10/01/2001	06/26/2003																
223 Liquid Storage D&D	10/01/2002	03/31/2005								-								
224 Lab Complex D&D	10/01/2004	10/31/2005																
225 Pilot Plant Complex D&D	10/01/2003	09/27/2005																
Craft Labor Car	Carpenter		•	0	0 0.1	•	0	0.1	•	0	0	0	0	0	,		0	0
Administration Cle	Clerks		0	0	0 0.1	•	0		•	0	0	0	0	0	•	0	0	0
Project Controls Cos	Cost Analyst		0	0	0.0	•	0	1.0	0	0	-	0	0	•	•	0	0	0
Engineering & Design Dra	Drafter/CAD Operator		0	0	0 0.1	•	0	1.0	0	0	0	•	0	•	•	•	0	0
Craft Labor Elec	Electrician		0	•	0 0.3	•	0	0.3	0	0	0	0	0	0	0	•	0	0
Engineering & Design Eng	Engineer		•	0	0 0.1	•	0	0.1	0	0	0	0	0	0	0	0	0	0
Engineering & Design Eng	Engineer Electrical		•	0	0.0	•	0	0.1	0	0	-	0	0	0	0	0	0	0
Engineering & Design Eng	Engineer Piping/Mechanic	υ	0	0	0 0.1	•	0	-0	0	0	0	0	0	0	0	0	0	0
General Labor Haz	Hazwat		0	0	0 0.3	•	0	0.3	0	0	•	0	0	0	0	0	0	0
Environmental Safety & Health Indu	Industrial Hygienist Tech.		0	0	0 0.1	•	0	0.1	0	0	0	0	0	-	0	0	0	0
Lab	Lab Tech.		0	0	0 0.1	•	0		0	0	0	0	0	0	0	0	0	
Craft Labor Milly	Millwright		0	0	0 0.3	•	0	0.3	0	0	0	0		0	0	0	0	0
Craft Labor Pipe	Pipefitter		•	0	0 0.3	•	0	0.3	0	0	0	0	0	0	0	0	0	0
QA/QC QA/	QA/QC Tech.		0	0	0 0.1	•	0		•	0	0	0	0	-	0	0	0	0
Environmental Safety & Health Rad	Rad Engineer		0	•	0.1	•	0	1.0	0	0	0	0	0	0	0	0	0	0
Environmental Safety & Health Rad	Rad Tech		0	•	0 0.5	•	0	0.5	0	0	0	0	0	0	0	0	0	0
Environmental Safety & Health Safe	Safety Tech.		0	•	0 0.1	•	0	1.0	0	0	•	0	0	0	0	0	0	0
Project Controls Sch	Scheduler		0	•	0 0.1	•	0		•	0	-	0	0	0	0	0	0	0

 Page 26 of 295 09/06/2001 7:15:51 PM

Manpower Planning Sheet (CR2)

MPS # 18802 UTILITY REDISTRIBUTION

DRIVERS	START DATE	END DATE	T0T	₽	FY 2001	0	5	S 12	03		FY 2003	۱ ~	8	E 5	FY 2004	8	2 2	FY 2005	8	5 ا	FY 2006	5
							1	1		ĺ		;			3				;			
203 PLANT 6 D&D	10/02/2000	04/09/2002	×	X XXX XXX XXX XXX XXX XXX	×	XX	×	XX	J													
206 ADMIN COMPLEX D&D	10/01/2004	07/03/2006															*** *** *** *** ***	XX XX	XXX	, XXX	× × ×	>
207 EAST WAREHOUSE D&D	10/04/2004	12/14/2004															XX					\$
209 PLANT 1 PHASE II D&D	10/04/2004	10/12/2005															XXX XXX XXX	×	XXX	×		
216 Electrical Station (Garage/Heavy Equip. Bldg.)	ildg.) 01/10/2005	03/28/2005															X	×		:		
217 Electrical Station (Main Electrical/Substations)	ons) 07/10/2006	09/28/2006																				XXX
218 General Sump Complex D&D	10/01/2001	01/07/2003					×	XXX	XXX XXX XXX XXX	<u>X</u>	×											
219 General Sump (Elec. Power Center Bldg.)	04/01/2004	07/19/2004													×××	×						
220 Plant 2 Complex D&D	10/01/2001	04/01/2004					×	XXX	X	X	XX	× ××× ××× ××× ××× ××× ××× ××× ××× ×××	××	X	×	 :						
221 Plant 3 Complex D&D	10/01/2001	12/10/2002					×	XXX	XXX XXX XXX XXX	×	×											
222 Plant 8 Complex D&D	10/01/2001	06/26/2003					XX	XXX	XXX XXX XXX		×	XXX XXX XXX										
223 Liquid Storage D&D	10/01/2002	03/31/2005									XX	XXX	×	X	XXX XXX XXX XXX XXX XXX XXX XXX XXX	×	XXXX	×				
224 Lab Complex D&D	10/01/2004	10/31/2005															X XXX XXX XXX	XXX	XXX	×		
225 Pilot Plant Complex D&D	10/01/2003	09/27/2005												×	XXX XXX XXX XXX XXX XXX XXX	××	XX	XXX	XX			
Procurement Buye	Buyer/Contracts Administrator	ator	1.10	•	0	0.1 0.1	•	0	0	0	0	0	0	1.0	0.2 0.2	0.2	0	0 0.1	•	0	0	1.0
Administration Clerks	ırks		1.	0	0	0.1 0.1		0	0	-	0	0	-	0.1	0.2 0.2	0.2	0	0 0.1	0	0	0	0.1
Construction Cons	Construction Coordinator		11.00	0	•	_		0	•	-	0	0	0	-	2 2	~	0		•	0	0	-
Construction Cons	Construction Engineer		5.50	•	0	0.5 0.5		0	0	-	0	0	0	9.0	-	-	0	0 0.5	0	0	0	0.5
Construction Cons	Construction Mgr.		1.10	0	0	0.1 0.1	•	0	0	0	0	0	0	0.1	0.2 0.2	0.2	0	0 0.1	0	0	0	0.1
Project Controls Cost	Cost Analyst		1.10	0	0	0.1 0.1	·	0	•	•	0	0	0	0.1	0.2 0.2	0.2	0	0 0.1	0	0	0	0.1
Engineering & Design Draff	Drafter/CAD Operator		1.10	•	0	0.1 0.1	•	0	0	-	0	0	0	0.1	0.2 0.2	0.2	0	0 0.1	0	0	0	0.1
Engineering & Design Engi	Engineer		6.60	•	0	0.5 0.5	•	0	0	•	0	0	0	0.5	-	-	0	0 0.5	0	0	•	9.5
Engineering & Design Engi	Engineer Electrical		1.10	•	0	0.1 0.1	•	0	0	0	0	0	0	0.1	0.2 0.2	0.2	0	0 0.1	0	0	•	1.0
Engineering & Design Engi	Engineer Civil		1.10	•	0	0.1 0.1		0	0	0	0	0	0	10	0.2 0.2	0.2	0	0 0.1	0	0	0	0.1
Engineering & Design Engi	Engineer Piping/Mechanic		1.10	0	0	0.1 0.1	•	0	0	0	0	0	0	0.1	0.2 0.2	0.2	0	0 0.1	0	•	•	0.1
Environmental Safety & H Industrial Hygienist Tech.	ustrial Hygienist Tech.		1.10	0	0	0.1 0.1	•	0	0	0	0	0	0	1.0	0.2 0.2	0.2	0	0 0.1	0	0	•	0.1
QA/QC QA/C	QA/QC Tech.		1.10	0	0	0.1 0.1	-	0	0	-	0	0	0	0.1	0.2 0.2	0.2	0	0 0.1	0	0	•	1.0
Environmental Safety & H Rad Engineer	d Engineer		1.10	0	0	0.1 0.1	•	0	0	0	0	0	0	0.1	0.2 0.2	0.2	0	0 0.1	0	0	•	0.1
Environmental Safety & H Rad Tech	1 Tech		5.50	•	0	0.5 0.5	_	•	0	-	0	0	0	9.5	-	-	0	0 0.5	0	0	•	0.5
Environmental Safety & H Safety Tech.	ety Tech.		1.30	0	0	0.1 0.1	•	0	0	-	•	0	0	1.0	0.2 0.2	0.2	0	0 0.2	0	0	0	0.2 0
Project Controls Sche	Scheduler		1.10	0	0	0.1 0.1	•	0	0	-	0	0	0	1.0	0.2 0.2	0.2	•	0 0.1	0	0	0	0.1 0
	Shee	Sheet Totals:	42.00	0.00 0.00	0 3.80	0 3.80	0.00	0.00	0.00	0.00	0.00 0.00	0.00	00:0	3.80	7.60 7.60	7.60	0.00 0.0	0.00 3.90	8.0	0.00	0.00 3.90	0.00

Manpower Planning Sheet (CR2)

MPS # 1BB02 UTILITY REDISTRIBUTION

DRIVERS	START DATE	END DATE	의 전	FY 2007 Q1 Q2 Q3 Q4		FY 2008 Q1 Q2 Q3	3 Q4	Q P	FY 2009 Q1 Q2 Q3 Q4	·	FY 2010 Q1 Q2 Q	010 03 Q4	·	FY 2011 Q1 Q2 Q	5 8	8
203 PLANT 6 D&D	10/02/2000	04/09/2002								_			-			
206 ADMIN COMPLEX D&D	10/01/2004	07/03/2006					-									
207 EAST WAREHOUSE D&D	10/04/2004	12/14/2004														
209 PLANT 1 PHASE II D&D	10/04/2004	10/12/2005														
216 Electrical Station (Garage/Heavy Equip. Bld 01/10/2005	/ Equip. Bld 01/10/2005	03/28/2005														
217 Electrical Station (Main Electrical/Substation 07/10/2006	//Substation 07/10/2006	09/28/2006														
218 General Sump Complex D&D	10/01/2001	01/07/2003														
219 General Sump (Elec. Power Center Bldg.)	iter Bldg.) 04/01/2004	07/19/2004														
220 Plant 2 Complex D&D	10/01/2001	04/01/2004														
221 Plant 3 Complex D&D	10/01/2001	12/10/2002														
222 Plant 8 Complex D&D	10/01/2001	06/26/2003														
223 Liquid Storage D&D	10/01/2002	03/31/2005														
224 Lab Complex D&D	10/01/2004	10/31/2005														
225 Pilot Plant Complex D&D	10/01/2003	09/27/2005														
Procurement	Buyer/Contracts Administrator	itrator	0	0	•	0	0	0	0	0	0	0	0	0	0	0
Administration	Clerks		•	0	-	0	0	0	0	- 0	0 0	0	•	0	0	0
Construction	Construction Coordinator		0	0		0	- - •	0	0		0	0		0	0	0
Construction	Construction Engineer		0	0		0	0	0	0		0	0		0	0	0
Construction	Construction Mgr.		0	0	-	0	0	0	0		0	0		0	0	0
Project Controls	Cost Analyst		0	0	-	0	0	0	0		0 0	0		0	0	0
Engineering & Design	Drafter/CAD Operator		0	0	0	0	0	0	0		0 0	0		0	0	0
Engineering & Design	Engineer		0	0	-	0	0	0	0 0		0	0		0	0	0
Engineering & Design	Engineer Electrical		•	0	-	0	0	0	0		0	0		0	0	0
Engineering & Design	Engineer Civil		0	0	-	0	•	0	0	-	0	0		0	0	0
Engineering & Design	Engineer Piping/Mechanic	υ	0	. 0 0	-	0	0	0	0	-	0	0	-	0	0	0
Environmental Safety & Health	Industrial Hygienist Tech		0	0	-	0	•	0	0	0	0	0	-	0	0	0
QA/QC	QA/QC Tech.		•	0	•	0	0	0	0	-	0	0		0	0	0
Environmental Safety & Health	Rad Engineer		0	0	-	0	0	0	0		0	0		0	0	0
Environmental Safety & Health	Rad Tech		0	0 0	-	0	•	0	0	-	0	0		0	0	0
Environmental Safety & Health	Safety Tech.		•	0	-	0		0	0	-	0 0	0		0	0	0
Project Controls	Scheduler		•	0	-	0	0	0	0	-	0	0		0	0	0
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Sheet Totals:

SECTION 1

4.0 ESTIMATE

BFUD1 FACILITY ISOLATION

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Page 1 of 6												09/07/2001 10:16 AM
PBS:	OHFN02	FACILITY D&D		Ē	uor Fe	Fluor Fernald, Inc.	, Inc.				DATE:	06-Sep-01
WBS: CTRL ACCT: CHARGE NO: COMMENT NO:	1.1.B.B BFUD BFUD1 :D-213, D-21	WBS: 1.1.B.B FACILITY ISOLATION & UTILITY REDISTRIBUTION CTRL ACCT: BFUD FACILITY ISOLATION & UTILITY REDISTRIBUTION CHARGE NO: BFUD1 FACILITY ISOLATION CHARGE NO: D2.213, D.216, D.705, D.861, F02-029, F02-047	REDISTRIBUTION REDISTRIBUTION		ESTIMATE SUF FOR ACTIVITY (1 FTE EQU/	ESTIMATE SUPPORT WORKSHEET FOR ACTIVITY BASED ESTIMATING (1 FTE EQUALS 1747 HOURS)	IEET TING S)				ECT MGR ARED BY: L YEAR:	JM STEVENS JM STEVENS 2000-2010
Resource: (Res Dept:	CLERKS	CLERKS Overtime:	Class:	EOC:	LABOR	R.						
		Oct 00- Sep 01	Oct 01- Sep 02	Oct 02- Sep 03	Oct 03- Sep 04	Oct 04- Sep 05	Oct 05- Sep 06	Oct 06- Sep 07	Oct 07- Sep 08	Oct 08- Sep 09	Oct 09- Sep 10	
Yr Hours: Cum Hours:		70.5	104.9	43.2	155.4 374.0	52.1	78.0	47.6	44.8	0.0	0.0 608.6	
Yr Total Cost: Cum Total Cost:		1,685	2,638	1,150	4,383	1,558	2,489	1,647	1,634	0 17 185	0 17 185	
Resource: C Res Dept:	CNSENG	CONSTRUCTION ENG Overtime: 1	Class:	EOC: SAL	LABOR	ĸ						
		Oct 00-	Oct 01-	Oct 02- Sep 03	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-	
Yr Hours:		34.2	40.0	30.0	120.0	69.1	40.3	40.3	40.5	0.0	0.0	
Yr Total Cost: Cum Total Cost:		1,864 1,864	2,295 4,159	1,823 5,981	7,721 13,703	4,707 18,410	2,936 2,936 21,346	3,183 24,529	414.4 3,367 27,895	414.4 0 27,895	414.4 0 27,895	
Resource: C Res Dept:	CRPNTR	CARPENTER Overtime:	Class:	EOC: HOU	LABOR	ĸ						
		Oct 00- Sep 01	Oct 01- Sep 02	Oct 02- Sep 03	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-	
Yr Hours:		70.5	104.9	43.2	155.4	52.1	78.0	47.6	44.8	0.0	0:0 0:0	
Cum Hours: Yr Total Cost:		70.5	175.5	218.6	374.0	426.2	3 227	551.8	596.6	596.6	596.6	
Cum Total Cost:		2,185	5,605	7,096	12,778	14,798	18,024	20,160	22,278	22,278	22,278	

Page 2 of 6

Resource: CSTANL	COST ANALYST		EOC	LABOR	S.					
Res Dept:	Overtime:	Class:	SAL							
	6	5	6	5	5	90 00	90	0	6	5
	20 100	10 10	Oct 02-	-60 00		-60100	-60 150	- /0 10/-	90 50	-60 50
:	In dec	zo dae	sep us	Sep 04	co des	seb ne	sep ov	Sep 08	Sep 09	Sep 10
Yr Hours:	70.5	104.9	43.2	155.4	52.1	78.0	47.6	44.8	0.0	0.0
Cum Hours:	70.5	175.5	218.6	374.0	426.2	504.2	551.8	596.6	596.6	596.6
Yr Total Cost:	2,744	4,296	1,872	7,137	2,537	4,053	2,682	2,661	0	0
Cum Total Cost:	2,744	7,040	8,912	16,050	18,587	22,640	25,322	27,982	27,982	27,982
Resource: DRFCAD	DRAFTER/CAD OPERATOR	RATOR	EOC:	LABOR	OR					
Res Dept:	Overtime:	Class:	SAL							
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:	70.5	104.9	43.2	155.4	78.2	93.2	47.6	44.8	0.0	0.0
Cum Hours:	70.5	175.5	218.6	374.0	452.3	545.4	593.0	637.8	637.8	637.8
Yr Total Cost:	2,200	3,445	1,501	5,723	3,051	3,883	2,150	2,133	0	0
Cum Total Cost:	2,200	5,645	7,146	12,869	15,920	19,802	21,953	24,086	24,086	24,086
Resource: ELECTN	ELECTRICIAN		EOC:	LABOR	Z.					
Res Dept:	Overtime:	Class:	ПОН							
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:	275.8	394.8	189.5	646.2	511.0	430.3	202.5	213.9	0.0	0.0
Cum Hours:	275.8	670.5	860.0	1,506.3	2,017.2	2,447.6	2,650.1	2,864.0	2,864.0	2,864.0
Yr Total Cost:	9,647	14,342	7,670	27,241	22,376	19,270	10,548	12,138	0	0
Cum Total Cost:	9,647	23,989	31,659	58,900	81,275	100,546	111,094	123,232	123,232	123,232
Resource: ENGELE	ENGINEER ELECTRICAL	CAL	EOC	LABOR	ĸ					
Res Dept:	Overtime:	Class:	SAL							
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:	70.5	104.9	43.2	155.4	78.2	93.2	47.6	44.8	0.0	0.0
Cum Hours:	70.5	175.5	218.6	374.0	452.3	545.4	593.0	637.8	637.8	637.8
Yr Total Cost:	3,693	5,782	2,520	9,605	5,121	6,517	3,609	3,581	0	0
Cum Total Cost:	3,693	9,474	11,994	21,599	26,720	33,237	36,846	40,427	40,427	40,427

Page 3 of 6

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Resource:	ENGINR	ENGINEER		EOC	LABOR	œ					
Res Dept:		Overtime:	Class:	SAL							
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:		20.5	104.9	43.2	155.4	78.2	93.2	47.6	44.8	0.0	0.0
Cum Hours:		70.5	175.5	218.6	374.0	452.3	545.4	593.0	637.8	637.8	637.8
Yr Total Cost:		4,850	7,594	3,309	12,616	6,726	8,559	4,741	4,703	0	0
Cum Total Cost:	ند	4,850	12,444	15,754	28,370	35,096	43,655	48,396	53,099	53,099	53,099
1											
Resource:	ENGMEC	ENGINEER MECH/PIPING	S S	EOC:	LABOR	œ					
Res Dept:		Overtime:	Class:	SAL							
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:		70.5	104.9	43.2	155.4	78.2	93.2	47.6	44.8	0:0	
Cum Hours:		70.5	175.5	218.6	374.0	452.3	545.4	593.0	637.8	637.8	637.8
Yr Total Cost:		4,386	6,867	2,993	11,409	6,083	7,740	4,287	4,253	0	0
Cum Total Cost:	2.2	4,386	11,253	14,246	25,655	31,737	39,478	43,765	48,018	48,018	48,018
Resource:	GLMNT	GEN LABOR MAINT		EOC	LABOR	~					
Doe Dont:		1	į								
) 8 8 9 9								
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:		0:0	20.0	0.0	0.0	79.5	79.3	79.3	79.5	0.0	0.0
Cum Hours:		0:0	20.0	20.0	20.0	99.5	178.8	258.1	337.6	337.6	337.6
Yr Total Cost:		0	772	0	0	3,643	3,885	4,211	4,451	0	0
Cum Total Cost:		0	772	772	277	4,415	8,300	12,511	16,962	16,962	16,962
Resource:	HAZWAT	HAZWAT		EOC:	LABOR	~					
Res Dept:		Overtime:	Class:	НОП							
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:		275.8	374.8	189.5	646.2	294.7	279.5	142.8	134.4	0.0	0.0
Cum Hours:		275.8	650.5	840.0	1,486.3	1,780.9	2,060.4	2,203.2	2,337.6	2,337.6	2,337.6
Yr Total Cost:		8,862	12,266	7,046	25,024	11,690	10,752	5,955	5,907	0	0
Cum Total Cost:		8,862	21,128	28,174	53,198	64,888	75,639	81,594	87,502	87,502	87,502

Page 4 of 6

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Resource:	INHTEC	INDUST HYGIENIST TEC	TEC	EOC	LABOR	æ					
Res Dept:		Overtime:	Class:			{					
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:		20.5	104.9	43.2	155.4	78.2	93.2	47.6	44.8	0.0	0.0
Cum Hours:		70.5	175.5	218.6	374.0	452.3	545.4	593.0	637.8	637.8	637.8
Yr Total Cost:		2,659	4,163	1,814	6,915	3,687	4,692	2,599	2,578	0	0
Cum Total Cost:		2,659	6,821	8,635	15,550	19,237	23,929	26,528	29,106	29,106	29,106
Resource:	LABTEC	HOST RA		Ċ	-	ş					
		Overtime:	Class:	SAL	LABOR.	Ķ					
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:		70.5	104.9	43.2	155.4	78.2	93.2	47.6	44.8	0.0	0:0
Cum Hours:		70.5	175.5	218.6	374.0	452.3	545.4	593.0	637.8	637.8	637.8
Yr Total Cost:		1,960	3,069	1,338	660'9	2,719	3,459	1,916	1,901	0	0
Cum Total Cost:		1,960	5,029	6,367	11,466	14,184	17,644	19,560	21,461	21,461	21,461
Resource: M	MAT300	MATERIAL OBJCLASS300	SS300	EOC	MATE	MATERIAL					
Res Dept:		Overtime:	Class:	MAT							
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	0.040	Oct 05-	94.08	00.00	e t	9
		Sen 01	San 03	Son 03	No and	0000	20 10 0	0000	-10 10	3 6	-60 100
Vr Unite		10000	30000		Sep 04	co dec	on des	odes of	Sep 08	Sep 09	Sep 10
omis.		0.000.01			0.000.81	32,119.8	14,119.8	10,119.8	7,640.6	0.0	0.0
Cum Onits:		0.000,01			32,000.0	64,119.8	78,239.6	88,359.4	0.000,96	0.000,96	0.000,96
Tr Total Cost:		10,000	2,054	2,109	19,517	35,801	16,195	11,943	9,279	0	0
Cum Total Cost:		10,000	12,054	14,163	33,680	69,482	85,676	97,620	106,899	106,899	106,899
Resource:	MILWRT	MILLWRIGHT		Ċ	000	۵					
		Overtime:				•					
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:		211.6	314.8	129.5	441.3	156.4	233.9	142.8	134.4	0.0	0:0
Cum Hours:		211.6	526.4	622.9	1,097.2	1,253.7	1,487.6	1,630.4	1,764.8	1,764.8	1,764.8
Yr Total Cost:		6,613	10,354	4,512	16,282	6,114	9,768	6,464	6,412	0	0
Cum Total Cost:		6,613	16,967	21,479	37,762	43,876	53,643	60,107	66,520	66,520	66,520

Page 5 of 6

Page 6 of 6

	Oct 08- Sep 10 0.0 3,120.9 0	Oct 09-	Sep 10 0.0 637.8 0 22,325	Oct 09- Sep 10 0.0 39,373.0 43,866	Oct 09- Sep 10 0.0 21,616.2 0 1,131,632
	Oct 08- Sep 09 0.0 3,120.9 0	Oct 08-	Sep 09 0.0 637.8 0 22,325	Oct 08- Sep 09 0.0 39,373.0 0 43,866	Oct 08- Sep 09 0.0 21,616.2 0 1,131,632
	Oct 07- Sep 08 274.3 3,120.9 15,577	Oct 07-	Sep 08 44.8 637.8 1,977 22,325	Oct 07- Sep 08 3,286.7 39,373.0 3,991 43,866	Oct 07- 0 Sep 08 S 1,673.3 21,616.2 21, 109,714 1,131,632 1,13
	Oct 06- Sep 07 288.1 2,846.6 15,460	Oct 06-	Sep 07 47.6 593.0 1,993 20,348	Oct 06- Sep 07 4,353.1 36,086.3 5,138 39,875	Oct 06- 0 Sep 07 S 1,736.8 1, 19,943.0 21, 111,534 10 1,021,918 1,13
	Oct 05- Sep 06 440.0 2,558.5 21,177	Oct 05-		Oct 05- Sep 06 4,353.1 31,733.2 4,993 34,737	Oct 05- Sep 06 3,012.6 18,206.2 169,049 910,384
LABOR	Oct 04- Sep 05 339.6 2,118.5 16,154 86,566	LABOR Oct 04-	Sep us 78.2 452.3 2,828 14,756 SUBCONTRACTORS	Oct 04- Sep 05 9,513.1 27,380.1 10,603 29,745	Oct 04- Sep 05 2,736.9 15,183.6 175,840 741,335
	Oct 03- Sep 04 711.6 1,778.9 30.443	Oct 03-	Sep 04 155.4 374.0 5,304 11,928	Oct 03- Sep 04 13,801.0 17,867.0 14,964 19,141	Oct 03- Sep 04 5,207.0 12,456.7 265,320 565,495
EOC:	Oct 02- Sep 03 202.7 1,067.3 8,271 39,988	EOC: 8: SAL Oct 02- Sen 03		Oct 02- Sep 03 1,114,0 4,066,0 1,175 4,177	Oct 02- Sep 03 1,492.0 7,249.7 65,932 300,175
Class:	Oct 01- Sep 02 520.4 864.6 19.386 31,697	Class: Oct 01- Sep 02	Sep 02 104.9 175.5 3,193 5,232 Class:	Oct 01- Sep 02 1,860.0 2,952.0 1,910 3,002	Oct 01- Sep 02 3,423.5 5,757.8 136,600
RAD TECH Overtime:	Oct 00- Sep 01 344.2 344.2 12,312	SAFETY TECH Overtime: Oct 00-	Subs SUBS Overtime:	Oct 00- Sep 01 1,092.0 1,092 1,092	Oct 00- Sep 01 2,334.3 2,334.3 97,643 97,643
RADTEC	¥	S&HTEC	t: SERVSUB	rš: L::	# ************************************
Resource: Res Dept:	Yr Hours: Cum Hours: Yr Total Cost: Cum Total Cost	Resource: Res Dept:	Yr Hours: Cum Hours: Yr Total Cost: Cum Total Cost: Resource:	Yr Units: Cum Units: Yr Total Cost: Cum Total Cost:	Yr Hours: Cum Hours: Yr Total Cost: Cum Total Cost

BFUD2 UTILITY REDISTRIBUTION

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Page 1 of 6												09/07	09/07/2001
PBS:	OHFN02	FACILITY D&D		E	Jor Fe	Fluor Fernald, Inc.	nc.				DATE:		10:16 AM
WBS: CTRL ACCT: CHARGE NO:	1.1.B.B BFUD BFUD2	WBS: 1.1.B.B FACILITY ISOLATION & UTILITY REDISTRIBUTION CTRL ACCT: BFUD FACILITY ISOLATION & UTILITY REDISTRIBUTION CHARGE NO: BFUD2 UTILITY ISOLATION	REDISTRIBUTION REDISTRIBUTION		ESTIMATE SUR FOR ACTIVITY (1 FTE EQU,	ESTIMATE SUPPORT WORKSHEET FOR ACTIVITY BASED ESTIMATING (1 FTE EQUALS 1747 HOURS)	HEET TING S)				PROJE CAM: PREP	ECT MGR: JM S1 JM S1 ARED BY:	VENS
	200	10, D-100, D-001, FOZ-028, FUZ-04									FISC	FISCAL YEAR: 2000-2010	9
Resource:	BUYCON	BUYER/CONTRACTS ADMN	SADMN	EOC:	LABOR	SR.							
Res Dept:		Overtime:	Class:										
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-		
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10		
Yr Hours:		42.8	0.0	0.0	281.6	20.7	49.1	0.0	0:0	0.0	0:0		
Cum Hours:		42.8	42.8	42.8	324.3	345.0	394.1	394.1	394.1	394.1	394.1		
Yr Total Cost:		1,791	0	0	13,928	1,082	2,751	0	0	0	0		
Cum Total Cost:		1,791	1,791	1,791	15,720	16,802	19,553	19,553	19,553	19,553	19,553		
Resource:	CLERKS	CLERKS		EOC	LABOR	<u>~</u>							
					5	•							
Res Dept:		Overtime:	Class:	SAL									
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-		
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10		
Yr Hours:		42.8	0:0	0.0	281.6	20.7	49.1	0.0	0.0	0:0	0.0		
Cum Hours:		42.8	42.8	42.8	324.3	345.0	394.1	394.1	394.1	394.1	394.1		
Yr Total Cost:		1,021	0	0	7,941	617	1,569	0	0	0	0		
Cum Total Cost:		1,021	1,021	1,021	8,963	9,580	11,148	11,148	11,148	11,148	11,148		
Resource:	CNSCOD	CONSTRUCTION COORD	ORD	Ċ	9	٥							
			2			£							
Res Dept:		Overtime:	Class:	SAL									
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-		
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10		
Yr Hours:		427.5	0.0	0.0	2,811.1	206.5	598.3	0.0	0.0	0.0	0.0		
Cum Hours:		427.5	427.5	427.5	3,238.6	3,445.1	4,043.5	4,043.5	4,043.5	4,043.5	4,043.5		
Yr Total Cost:		13,569	0	0	105,341	8,197	25,375	0	0	0	0		
Cum Total Cost:		13,569	13,569	13,569	118,911	127,108	152,483	152,483	152,483	152,483	152,483		

Page 2 of 6

Resource: CNSENG	CONSTRUCTION ENG		EOC	LABOR	S.					
Res Dept:	Overtime:	Class:	SAL							
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:	213.8	0.0	0:0	1,367.2	20.7	160.2	0.0	0.0	0.0	0.0
Cum Hours:	213.8	213.8	213.8	1,581.0	1,601.6	1,761.8	1,761.8	1,761.8	1,761.8	1,761.8
Yr Total Cost:	11,650	0	0	87,972	1,407	11,666	0	0	0	0
Cum Total Cost:	11,650	11,650	11,650	99,622	101,029	112,695	112,695	112,695	112,695	112,695
Resource: CNSMGR	CONSTRUCTION MGR		ċ	000	g					
	Overtime:	Class:	SAL	Š	5					
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:	42.8	0.0	0:0	281.6	20.7	49.1	0.0	0.0	0:0	0.0
Cum Hours:	42.8	42.8	42.8	324.3	345.0	394.1	394.1	394.1	394.1	394.1
Yr Total Cost:	2,651	0	0	20,613	1,601	4,072	0	0	0	0
Cum Total Cost:	2,651	2,651	2,651	23,264	24,866	28,938	28,938	28,938	28,938	28,938
Resource: CSTANL	COST ANALYST		EOC	LABOR	ĸ					
Res Dept:	Overtime:	Class:	SAL							
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05	000	Oct 07.	e to	ō
	Sep 01	Sep 02	Sep 03	Sep 04	Sen 05	Sen OB	Sen 07	Sep 08	00 00	Ser 46
Yr Hours:	42.8	0.0	0.0	281.6	20 455	49.1	5	och och	60 dac	oeb 10
Cum Hours:	42.8	42.8	42.8	324.3	345.0	394.1	394 1	394.1	394 1	9.00
Yr Total Cost:	1,663	0	0	12,931	1,005	2.554	0	0		- 6
Cum Total Cost:	1,663	1,663	1,663	14,594	15,599	18,153	18,153	18,153	18,153	18,153
Nesource. DATCAD	DRAFIERCAD OPERATOR	5	E00	LABOR	<u>ĸ</u>					
Res Dept:	Overtime:	Class:	SAL							
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:	42.8	0.0	0.0	281.6	20.7	49.1	0:0	0.0	0:0	0.0
Cum Hours:	42.8	42.8	42.8	324.3	345.0	394.1	394.1	394.1	394.1	394.1
Yr Total Cost:	1,333	0	0	10,368	805	2,048	0	0	0	0
Cum Total Cost:	1,333	1,333	1,333	11,702	12,507	14,555	14,555	14,555	14,555	14,555

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	Oct 09- Sep 10 0.0 394.1 0	Oct 09- Sep 10 0.0	24,430	Oct 08- Sep 10 0.0 2,077.4	Oct 09- Sep 10 0.0 394.1 0
	Oct 08- Sep 09 0.0 394.1 0	Oct 08- Sep 09 0.0	394.1 0 24,430	Oct 08- Sep 09 0.0 2,077.4	Oct 08- Sep 09 0.0 394.1 0
	Oct 07- Sep 08 0.0 394.1 0	Oct 07- Sep 08 0.0	394.1 0 24.430	Oct 07- Sep 08 0.0 2.077.4 0	Oct 07- Sep 08 0.0 394.1 0
	Oct 06- Sep 07 0.0 394.1 0	Oct 06- Sep 07	394.1 0 24.430	Oct 06- Sep 07 0.0 2,077.4 170,259	Oct 06- Sep 07 0.0 394.1 0
	Oct 05- Sep 06 49.1 394.1 3,571 25,377	Oct 05- Sep 06 49.1	394.1 3,437 24,430	Oct 05- Sep 06 352.6 2,077.4 32,396 170,259	Oct 05- Sep 06 49.1 394.1 4,083 29,017
N N	Oct 04- Sep 05 20.7 345.0 1,404 21,806	DR Oct 04- Sep 05 20.7	% + %	Oct 04- Sep 05 103:3 1,724.8 8,879 137,862	03- Oct 04- Oct 0 04 Sep 05 Sep 1.6 20.7 46 4.3 345.0 394 770 1,606 4,0 128 24,934 29,0 INCLUDES ESCALATION COSTS
LABOR	Oct 03- Sep 04 281.6 324.3 18,077 20,402	LABOR Oct 03- Sep 04 281.6		Oct 03- Sep 04 1,407.8 1,621.6 128,984 LABOR	Oct 03- Sep 04 281.6 324.3 20,670 23,328 INCLUDE
EOC: SAL	Oct 02- Sep 03 0.0 42.8 0 2,325	EOC: SAL Oct 02- Sep 03	42.8 0 2,238 EOC:	Oct 02- Sep 03 0.0 213.8 0 14,698	SAL Sep 03 0.0 42.8 0 2,658
Class:	Oct 01- Sep 02 0.0 42.8 0 2,325	AL Class: Oct 01- Sep 02 0.0	42.8 0 2,238 Class:	Oct 01- Sep 02 0.0 213.8 0 14,698	Oct 01- Sep 02 0.0 42.8 0 2,658
ENGINEER CIVIL Overtime:	Oct 00- Sep 01 42.8 42.8 2,325 2,325	ENGINEER ELECTRICAL Overtime: Oct 00- Sep 01 42.8	42.8 2,238 2,238 ENGINEER Overtine:	Oct 00- Sep 01 213.8 213.8 214,698 14,698 14,698	Oct 00- Sep 01 42.8 42.8 2,658 2,658
ENGCVL		ENGELE	ENGINR	ENGMEC)2.xis
Resource: Res Dept:	Yr Hours: Cum Hours: Yr Total Gost: Cum Total Cost	Res Dept: Pes Dept:	Cum Hours: Yr Total Gost: Cum Total Gost: Resource: Res Dept:	Yr Hours: Cum Hours: Yr Total Cost: Cum Total Cost: Resource:	Yr Hours: Cum Hours: Yr Total Cost: Cum Total Cost: G:\text{PDP\text{BFUD2.xis}}

Resource:	FIELDSUB	FIELD SUBS		EOC		SUBCONTRACTORS	g				
Res Dept:		Overtime:	Class:				2				
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Units:		261,950.0	0.0	0.0	1,441,790.0	35,550.0	125,380.0	0.0	0:0	0:0	0:0
Cum Units:		261,950.0	261,950.0	261,950.0	1,703,740.0	1,739,290.0	1,864,670.0	1,864,670.0	1,864,670.0	1,864,670.0	1.864.670.0
Yr Total Cost:		261,950	0	0	1,563,277	39,625	143,804	0	0	0	0
Cum Total Cost:	st:	261,950	261,950	261,950	1,825,227	1,864,852	2,008,656	2,008,656	2,008,656	2,008,656	2,008,656
Resource:	INHTEC	INDUST HYGIENIST TEC	' TEC	EOC:		LABOR					
Res Dept:		Overtime:	Class:	: SAL							
		Š	Š	ç	9				!		
		-8350	-1000	OCI 02-	-50.50	-	-60 50	Oct 06-	Oct 0/-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:		42.8	0.0	0.0	321.6	20.7	49.1	0.0	0.0	0.0	0.0
Cum Hours:		42.8	42.8	42.8	364.3	385.0	434.1	434.1	434.1	434.1	434.1
Yr Total Cost:		1,611	0	0	14,309	973	2,475	0	0	0	0
Cum Total Cost:	#	1,611	1,611	1,611	15,920	16,893	19,368	19,368	19,368	19,368	19,368
Resource:	MAT300	MATERIAL OBJCLASS300	(\$\$300	EOC		MATERIAL					
Res Dept:		Overtime:	Class:	MAT							
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Units:		7,000.0	0.0	0.0	85,720.0	11,260.0	22,520.0	0.0	0.0	0.0	0.0
Cum Units:		7,000.0	7,000.0	7,000.0	92,720.0	103,980.0	126,500.0	126,500.0	126,500.0	126,500.0	126,500.0
Yr Total Cost:		2,000	0	0	92,943	12,551	25,829	0	0	0	0
Cum Total Cost:	ند	7,000	7,000	2,000	99,943	112,494	138,323	138,323	138,323	138,323	138,323
	7. 0. 0.			Š							
resonice.	בייניים	SCHEDULERS				LABOR					
Res Dept:		Overtime:	Class:	SAL							
		Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
		Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:		42.8	0.0	0.0	281.6	20.7	49.1	0.0	0.0	0.0	0:0
Cum Hours:		42.8	42.8	42.8	324.3	345.0	394.1	394.1	394.1	394.1	394.1
Yr Total Cost:		2,261	0	0	17,578	1,366	3,472	0	0	0	0
Cum Total Cost:	ند	2,261	2,261	2,261	19,839	21,205	24,677	24,677	24,677	24,677	24,677

INCLUDES ESCALATION COSTS

G:\FDP\BFUD2.xls

	Oct 08- Oct 09- Sep 09 Sep 10 0.0 0.0 394.1 394.1 0 0	Oct 08- Oct 09- Sep 09 Sep 10 0.0 0.0 394.1 394.1 0 0	Oct 08- Oct 09- Sep 09 Sep 10 0.0 0.0 2,010.5 2,010.5 0 0 81,933 81,933	Oct 08- Oct 09- Sep 09 Sep 10 0.0 0.0 461.1 461.1 0 0
	Oct 07- Sep 08 0.0 394.1 0	Oct 07- Sep 08 0.0 394.1 0	Oct 07- Sep 08 0.0 2,010.5 0	Oct 07- Sep 08 0.0 461.1 0
	Oct 06- Sep 07 0.0 394.1 0	Oct 06- Sep 07 0.0 394.1 0	Oct 06- Sep 07 0.0 2,010.5 0	Oct 06- Sep 07 0.0 461.1 0
	Oct 05- Sep 06 49.1 394.1 2,028 14,410	Oct 05- Sep 06 49.1 3,099 22,026	Oct 05- Sep 06 245.7 2,010.5 11,189 81,933	Oct 05- Sep 06 76.2 461.1 2,943
LABOR	Oct 04- Sep 05 20.7 345.0 797 12,383	LABOR Oct 04- Sep 05 20.7 345.0 1,219 18,927	Oct 04- Sep 05 103.3 1,764.8 4,401 70,744	Oct 04- Sep 05 20.7 385.0 747
	Oct 03- Sep 04 281.6 324.3 10,265	Oct 03- Sep 04 281.6 324.3 15,690	: LABOR Oct 03- Sep 04 1,447.8 1,661.6 59,058 66,343	: LABOR Oct 03- Sep 04 321.6 364.3 10,976
EOC:	Oct 02- Sep 03 0.0 42.8 0 1,320	EOC: s: SAL Oct 02- Sep 03 0.0 42.8 0 2,018	EOC: SAL Oct 02- Sep 03 0.0 213.8	EOC: SAL Oct 02- Sep 03 0.0 42.8 0.1236
Class:	Oct 01- Sep 02 0.0 42.8 0	Class: Oct 01- Sep 02 0.0 42.8 0 2.018	Class: Oct 01- Sep 02 0.0 213.8 0	Class: Oct 01- Sep 02 0.0 42.8 0
QA/QC TECH Overtime:	Oct 00- Sep 01 42.8 42.8 1,320	RAD ENGINEER Overtime: Oct 00- Sep 01 42.8 42.8 2.018 2.018	RAD TECH Overtime: Oct 00- Sep 01 213.8 213.8 7.285	SAFETY TECH Overtime: Oct 00- Sep 01 42.8 42.8 1,236
QACTEC	i	RADENG ::	RADTEC	S&HTEC
Resource: Res Dept:	Yr Hours: Cum Hours: Yr Total Cost: Cum Total Cost:	Resource: Res Dept: Yr Hours: Cum Hours: Yr Total Cost: Cum Total Cost:	Resource: Res Dept: Yr Hours: Yr Total Cost: Cum Total Cost:	Res Dept: Res Dept: Yr Hours: Yr Total Cost: Cum Total Cost:

Page 6 of 6

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Resource: SERVSUB Res Dept:	SUBS Overtime:	TELE	Class:	EOC: SUB	SUBCONTRACTORS	S				
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	, Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03		Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Units:	0.0	0.0	0.0	6,	0.0	0.0	0.0	0.0	0.0	0.0
Cum Units:	0.0	0.0	0.0	1,000,000.0	1,000,000.0	1,000,000.0	1,000,000.0	1,000,000.0	1,000,000.0	1,000,000.0
Yr Total Cost:	0	0	0	1,084,261	0	0	0	0	0	0
Cum Total Cost:	0	0	0	1,084,261	1,084,261	1,084,261	1,084,261	1,084,261	1,084,261	1,084,261
GRAND TOTALS:										
	Oct 00-	Oct 01-	Oct 02-	Oct 03-	Oct 04-	Oct 05-	Oct 06-	Oct 07-	Oct 08-	Oct 09-
	Sep 01	Sep 02	Sep 03	Sep 04	Sep 05	Sep 06	Sep 07	Sep 08	Sep 09	Sep 10
Yr Hours:	1,624.6	0.0	0.0	10,774.2	702.1	2,022.8	0.0	0.0	0.0	0.0
Cum Hours:	1,624.6	1,624.6	1,624.6	12,398.8	13,100.9	15,123.7	15,123.7	15,123.7	15,123.7	15,123.7
Yr Total Cost:	340,279	0	0	3,297,888	89,634	288,362	0	0	0	0
Cum Total Cost:	340,279	340,279	340,279	3,638,167	3,727,801	4,016,162	4,016,162	4,016,162	4,016,162	4,016,162

CONTROL TEAM (ENGLOW IT (

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PROJECTS CONTROLS ESTIMATING SERVICES

May 10, 2001

PROJECT DESCRIPTION: Electrical Station Utility Redistribution

WBS NUMBER: 1.1.B.C I.I.B.B Jacility Isolation & Utility Redristribution

PROJECT ENGINEER: Harry Gear

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-003

BASIS OF ESTIMATE

SUPPORTING DOCUMENTATION:

Verbal Scope	P & ID's		Work Plan	
Drawings	Equipment List		Site Walk	\boxtimes
Sketches	Specifications		Eng. Mtg.	
Flow Diagrams	Written Scope	\boxtimes	Estimate	

TYPE OF ESTIMATE:

Change Proposal		Government	
Plan/Feasibility		Conceptual	
Construction		Title I Design	
Budget	\boxtimes	Independent	

BASIS OF ESTIMATE:

Prepare a control estimate to determine the cost of Utility Redistribution for Building 25C – Sewage Lift Station. Estimate to include manhours, labor, material, equipment, and subcontract costs for the following scope of work:

Portable generator hook-up to provide emergency electrical power for sewage lift station. D&D of Building 31A – Vehicle Repair Garage Emergency Power Generator requires this modification.

PROJECTS CONTROLS ESTIMATING SERVICES

May 10, 2001

PROJECT DESCRIPTION: Electrical Station Utility Redistribution

WBS NUMBER: 1.1.B.C 1.1.B.B PROJECT ENGINEER: Harry Gear

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-003

ESTIMATE ASSUMPTIONS

EXECUTION:
This project is to be performed on a 40-hour week, 10 hours a day.
This project is to be performed on a 40-hour week, 8 hours a day.
Premium time allowed.
WAGE RATES:
Wage rates within this estimate are based on Project Labor Agreement rates, effective October 2000 and are considered FY01 dollars for estimating.
☑ Wage rates within this estimate are based on FF Support Contractor FSC 599 wage rates,
effective October 1999 have been escalated 3% and are considered FY01 dollars for estimating. Wage rates within this estimate are based on FF FTE Planning Labor Rates FY01.
ENGINEERING:
⊠ N/A
Engineering dollars provided by the Project Engineer.
Engineering dollars have been factored in at the standard 12% of the total direct and indirect
field costs as per request of Project Engineer.
note docto do por request or r roject Engineer.
CONSTRUCTION MANAGEMENT:
CONSTRUCTION MANAGEMENT:
N/A
N/A☐ Construction Management dollars provided by the Project Engineer.
 N/A ☐ Construction Management dollars provided by the Project Engineer. ☐ Construction Management dollars have been factored in at the standard 30% of the total direct
N/A☐ Construction Management dollars provided by the Project Engineer.
 N/A ☐ Construction Management dollars provided by the Project Engineer. ☐ Construction Management dollars have been factored in at the standard 30% of the total direct and indirect field costs as per request of Project Engineer.
 N/A ☐ Construction Management dollars provided by the Project Engineer. ☐ Construction Management dollars have been factored in at the standard 30% of the total direct and indirect field costs as per request of Project Engineer. PROJECT MANAGEMENT:
 N/A ☐ Construction Management dollars provided by the Project Engineer. ☐ Construction Management dollars have been factored in at the standard 30% of the total direct and indirect field costs as per request of Project Engineer. PROJECT MANAGEMENT: ☒ N/A
 N/A ☐ Construction Management dollars provided by the Project Engineer. ☐ Construction Management dollars have been factored in at the standard 30% of the total direct and indirect field costs as per request of Project Engineer. PROJECT MANAGEMENT: ☐ N/A ☐ Project Management dollars provided by the Project Engineer.
 N/A ☐ Construction Management dollars provided by the Project Engineer. ☐ Construction Management dollars have been factored in at the standard 30% of the total direct and indirect field costs as per request of Project Engineer. PROJECT MANAGEMENT: ☐ N/A ☐ Project Management dollars provided by the Project Engineer. ☐ Project Management dollars have been factored in at the standard 30% of the total direct and
 N/A ☐ Construction Management dollars provided by the Project Engineer. ☐ Construction Management dollars have been factored in at the standard 30% of the total direct and indirect field costs as per request of Project Engineer. PROJECT MANAGEMENT: ☐ N/A ☐ Project Management dollars provided by the Project Engineer.
 N/A ☐ Construction Management dollars provided by the Project Engineer. ☐ Construction Management dollars have been factored in at the standard 30% of the total direct and indirect field costs as per request of Project Engineer. PROJECT MANAGEMENT: ☐ N/A ☐ Project Management dollars provided by the Project Engineer. ☐ Project Management dollars have been factored in at the standard 30% of the total direct and indirect field costs as per request of Project Engineer.
 N/A □ Construction Management dollars provided by the Project Engineer. □ Construction Management dollars have been factored in at the standard 30% of the total direct and indirect field costs as per request of Project Engineer. PROJECT MANAGEMENT: □ N/A □ Project Management dollars provided by the Project Engineer. □ Project Management dollars have been factored in at the standard 30% of the total direct and indirect field costs as per request of Project Engineer. WASTE PROGRAM MANAGEMENT:
 N/A ☐ Construction Management dollars provided by the Project Engineer. ☐ Construction Management dollars have been factored in at the standard 30% of the total direct and indirect field costs as per request of Project Engineer. PROJECT MANAGEMENT: ☐ N/A ☐ Project Management dollars provided by the Project Engineer. ☐ Project Management dollars have been factored in at the standard 30% of the total direct and indirect field costs as per request of Project Engineer.

PROJECTS CONTROLS ESTIMATING SERVICES

May 10, 2001

PROJECT DESCRIPTION: Electrical Station Utility Redistribution

WBS NUMBER: 1.1.B.C 1.1.B.G PROJECT ENGINEER: Harry Gear

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-003

PRODUCTIVITY:

A productivity factor has been developed and applied to the unit man-hours derived from MEANS, Richardson, NECA, and or any other published estimating source. See attachment APPENDIX "A" and APPENDIX "B".

ESCALATION:

Escalation costs are excluded from the target estimate. The escalation costs are calculated within the Micro-Frame computer system according to the plan for rebaselining.

UNIT RATES:

Unit man-hours, equipment and material dollars are based on Richardson, MEANS, NECA, and or other published rates.

G & A (HO EXPENSE):

G & A are excluded from the target estimate. The G & A cost are calculated within the Micro-Frame computer system according to the plan for rebaselining.

HEALTH PHYSICS:

See attached APPENDIX "C".

RISK BUDGET:

A cost element, based on a Risk Analysis calculated for this estimate to cover a statistical probability of a 50% chance of overrun/under run to the project. The target estimate is the sum of the base estimate and the risk budget.

CONTINGENCY:

An amount budgeted to cover costs that may result from incomplete design, unforeseen and unpredictable conditions, or uncertainties. Contingency is calculated as the delta between the 50% chance of overrun and the 5% chance of overrun, indicated on the risk analysis.

PROJECTS CONTROLS ESTIMATING SERVICES

May 10, 2001

PROJECT DESCRIPTION: Electrical Station Utility Redistribution

WBS NUMBER: 1.1.B.B 1.1.B.B PROJECT ENGINEER: Harry Gear

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-003

ESTIMATE INCLUSIONS & EXCLUSIONS

INCLUSIONS:

- Premobilization & Mobilization.
- Demobilization.
- Labor hours.
- Material dollars.
- Equipment dollars.

EXCLUSIONS:

- Premium time.
- Permits and fees.
- FF G & A (Home Office Expense).
- Construction Management.
- Any second tier subcontract costs.
- Project Management dollars.
- Waste Management dollars.

SUPPORT CONTRACTOR ESTIMATE SUMMARY SHEET

PROJECT:

Electrical Station Utility Redistribution

DATE:

10-May-01

ESTIMATE NO.: C3-2001-05-003

ESTIMATOR:

Ed Lumbert

CLIENT:

CLIENT: WBS NO.:	DOE Fluor	r rei	rnaic	ı, inc			LOCATION: TASK NO: PFL	FERNALD
	DESCRIPTION	M/H	AVG.	SPT.CONT.			RNALD	
			RATE	LABOR \$	S/C / OTHER	MAT'L \$	EQUIP \$	TOTAL \$
	Mobilization & Demobilization	192		\$7,330				
	25C - Sewage Lift Station	158		\$5,630		\$2,750		\$2,75
						•		
SUPPORT	CONT. / FF D. F. COST TOTAL	350	\$37.02	\$12,960		\$2,750		\$2,75
UPERVISION		67		\$3,500				
MALL TOOLS	& CONSUMABLES					\$1,400		\$1,40
MISC. EQUIP.R	ENTAL					·		
IOB CLEAN-UP		16		\$600	l i	\$200		\$20
SAFETY		8		\$300		\$100		\$10
HEALTH PHYSI	CS S/C	27		\$1,000	i i			
IOB SPECIFIC	FRAINING							
SUPPORT COM	IT. INDIRECT FIELD COST TOTAL	118		\$5,400				
SUPPORT COM	IT. TOTAL BILLABLE COSTS	468	\$39.27	\$18,360				
TEMPORARY F	ACILITIES							
	TILITY HOOK-UP				1			
D FERNALD S						\$300		\$30
	IELD COSTS TOTAL					\$2,000		\$2,00
	NDIRECT FIELD COSTS TOTAL			440.000		\$4,750		\$4,75
	CONT. DIRECT & INDIRECT FIELD COST	TOTAL		\$18,360		\$4,750		\$23,11
POR-INIAT (B	ASE ESTIMATE)							\$23,11
TARGET	ESTIMATE (FY 01 D	OLLARS)					\$23,11
								<u> </u>

ESTIMATE PERFORMED E

SUPPORT CONTRACTOR ESTIMATE SUMMARY SHEET

PROJECT: Electrical Station Utility Redistribution

DATE:

10-May-01

ESTIMATE NO.: C3-2001-05-003

FACTORS

ESTIMATOR:

Ed Lumbert FERNALD

CLIENT: WRS NO .

1180 0

LOCATION:

WBS NU.: 1.1.B.B 1/5						TASK NO.:	BELEZ REUC
	SUPT.CONT	FD FERNALI					PROJECT
	LABOR \$	LABOR \$	S/C \$	MAT'L.\$	EQUIP. \$	PPE \$	TOTAL \$
DFC DOLLARS	\$12,960			\$2,750			\$15,710
IFC COST FACTOR	1.4167	1.0000		1.6182		-	
SALES TAX COST FACTOR	-	-		1.0600	1.0600	1.0600	
BOND + OVERHEAD & PROFIT COST FACTOR	N/A	N/A	N/A	N/A	N/A	N/A	
DIRECT FIELD COST FACTOR =	1.4167	1.0000		1.7153		1.000	
DIRECT FIELD COST FACTOR =	1.410/	1.0000		1./ 153		1.0600	<u> </u>
DIRECT BASE ESTIMATE \$'s	\$18,360			\$4,717			\$23,077
RISK BUDGET FACTOR	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
DIRECT TARGET ESTIMATE FACTOR	1.4167	1.0000		1.7153		1.0600	
- Indian Committee Committ	i					1.0000	
DIRECT TARGET ESTIMATE (FY00 DOLLARS)	\$18,360			\$4,717			\$23,077
	-						

^{1.)} If there are no equipment rental costs in the "Directs" (0 \$'s in 120) and the default allowance of \$3.50 per MH has been used in the "indirects", input the indirect Equip. \$'s in H62 and put a dash in H63. This will treat the Equip. \$'s as direct cost and apply the sales tax factor. On page 3 below, insert the equipment \$'s in any pay items that apply.

PROJECT: ESTIMATE NO.:	Electrical Station Utility Redistri : C3-2001-05-003	butic	t Field Cos		SUMMAR		DATE: ESTIMATOR:	10-May-01 Ed Lumbert
CLIENT:	DOE		ACTORS			-	LOCATION:	FERNALD
WBS NO.:	1.1.B.g (SUPPORT					TASK NO.:	BELEZ BE
		CONT.	FF					PROJECT
PAY ITEM NO.	DESCRIPTION	LABOR \$	LABOR \$	SIC \$	MAT'L.\$	EQUIP. \$	PPE \$	TOTAL \$
	PPE							
	Mobilization & Demobilization	7330						
	Modulzacion & Demodulzacion	\$10,380			.	•		\$10,380
					.	•		
	25C - Sewage Lift Station	5630			2,750	•		110 700
		\$7,980		•	\$4,720			\$12,700
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UB-TOTAL - SU	PPORT CONTRACTOR	\$18,360						\$18,360
UB-TOTAL · FF					\$4,720		7	\$4,720

NOTE: The above costs exclude any FD Fernald support costs that may appear on page 1 & 2, such as Waste Disposition, Engineering, Project Management, or Construction Management.

SUPPORT CONTRACTOR · Stated in FY01 DOLLARS

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	& an						
DATE: 10-May-01 ESTIMATO Ed Lumbert	LOCATION: FERNALD Task no.: Belez (Gruda	TOTAL		\$7,330	\$8,380		\$15,710
DATE: Estimato	LOCATION: FERNALD TASK NO.: Bele? €	EQUIP					
		MAT'L			\$2,750		\$2,750
		SIC					
	1	LABOR		\$7,330	\$5,630		\$12,960
	Inc		Eduip				
,	Fluor Fernald, Inc.	COST / UNIT	Mat				
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	er		Labor				
	or	1	Kate			· .	350 \$37.02
,	Inc	MAN-HOURS	- G	192	158		35
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bution		UNIT					<u>[0</u>
Redistri		OTY					
: E NO.:	CLIENT: ODDE WBS NO.: 1.1.8.8 $\dot{\epsilon}$	DIRECT COST SUMMARY		Mobilization & Demobilization	25C - Sewage Lift Station		DIRECT COST SUMMARY
ES.	2 8	·					١

\$7,330

SUPPORT CONTRACTOR · Stated in FY01 DOLLARS

192 \$38.18

e her then thropiest estimates k 3 julii ty mbasalina 2001 pha 02/03 alectrical station k 3 200 105003 ale sta sub support 2001 .xts

Mobilization & Demobilization

	(DA										
DATE: 10:May-01 ESTIMATO Ed Lumbert	LOCATION: FERNALD TASK NO.: BELEZ $BFUDA$	TOTAL		\$2,100		·		\$2,100 \$3,130			
DATE: ESTIMATO	LOCATION: FERNALD TASK NO.: BELE2 \mathcal{E}	EDUIP									
		MAT'L									
		SIC									
		LABOR		\$2,100				\$2,100 \$3,130			
	1		Equip	by FDF	***		····	by FDF by FDF			
	Fernald, Inc.	COSTIUNIT	Mat'l		•						
	חמ	8	S/C							٠.	
	er		Labor								
	rF		Rate	38.12				38.12 38.12			
	Fluor	MAN-HOURS	Total	55				55 82			
	正		Unit	1.000				1.000	-		
ution		UNIT		Ę				בֿב			
<i>r</i> Redistril	•	OTY		40				60			
: E NO.:	CLIENT: DOE WBS NO.: 1.1.8.2 $\!$	E Mobilization & Demobilization	1	Mobilization mD Install Temporary Utilities			Demobilization	mD Remove Temporary Utilities mD Complete Punch List Items			
PR ES	KB CL	PPE	LEVEL	E C				무요			

SUPPORT CONTRACTOR - Stated in FY01 DOLLARS

e; hestdeptproject estimates|c3|utikity rebaseline 2001 pbs.02103 electrical station|c3 200105003 ele sta sub support 2001.xts

Electrical Station Utility Redistribution C3.2001-05-003 DOE 1.1.8 $\not\!\!\!\!/ \mathcal{B}$

PROJECT:
ESTIMATE NO.:
CLIENT:
WBS NO.:

Fluor Fernald, Inc.

DATE: 10-May-01
ESTIMATO Ed Lumbert
LOCATION: FERNALD
TASK NO.: BELEZ- BRUD

	TOTAL				\$985	\$640	6140	\$140 1140	8/\$	\$264	\$980	61 A30	41,430	#DI *	000,1\$	\$2,750												000	\$8,380
	EDOIP																												
	MAT'L				\$10	\$250	046	000	\$10	\$20	\$200	£4 27E	5,0	1	\$25	008\$												0	\$2,750
	SIC																												
	LABOR				\$975	\$390	600	700	\$9\$	\$244	\$780	662	5 6	40104	\$9/2	\$1,950												000	\$5,630
I		Equip																											
	COST / UNIT	Mat'i			0.50	250.00	E7 02	07.00	0.05	0.40	100.00	1 275 00	00.070,1		1.25	20.00													
		SIC																						-	-				
		Labor																											
	- 1	Rate				35, 60				35.60						35.60												- 1	\$35.62
	MAN-HOURS	Total				11							7 0		27				•									 	158
		Ç			1.000	000	7	080.1	0.007	0.100	8,000	7 20 20	5000	000.	1.000	1.000				 ٠.									
L			_		ځ		3 8			=			_		돌 . 														
	TO OI		k-up with		20	_	•	_ ;	200	20	2			7	200	4													
L	PPE 25C - Sewage Lift Station	LEVEL	Provide portable generator hook-up with	throwover switch.	mD Survey and Lavout	mD Disconnect Switch 480v 3nh		mD Duplex Receptacle W GFCI	mD 1/C #12 THHN Wire	mD Conduit, 1 1/2" dia, RGS	mD Conduit Fittings 1 1/2" dia	Transfer Cuitob 4002 and	mb I ransier Switch, 460v 3 pole in	mD Lock and Tag	mD Electrical Tie-in	mD Allowance for Hardware													25C - Sewage Lift Station
L			_	_	_	_	_	_	=	_		_	_	_	_	_		 		 	 	 	 				 	 1	

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					APPENDIX "A"	. V							
PROJECT: Electrical Station	Electrical Station Utility Redi	distribution			SITE SPECIFIC	NFIC					DATE:	10-May-01	
ESTIMATE NO C3-2001-03-0 CLIENT: DOE WBS NO.: 1.1.8. \$	500			EFFICIENCY	EFFICIENCY / MULTIPLIER ANALYSIS	ANALYSIS						FERNALD Belet BP	ran
PERCENT OF II	PERCENT OF INFLUENCE ON CI	CHART MANHOURS	OURS										
	40%	20%	%09	70%	%08	%06	100%	105%	110%	% OF	WT'D VALUE	PROD. Result	
CRAFT SKILL (NOTE 1)	POOR			FAIR			STD	V.G00D	EXCELLENT	100.0%	12.0%	0.12	
CRAFT AVAIL.(NOTE 1)		POOR		FAIR			STD			100.0%	8.0%	0.08	
CLIMATE (NOTE 2)	SEVERE	ICEISNOW			RAIN		+40 TO +85			90.0%	20.0%	0.18	
PLANT ELEVATION		0VER 10,000FT			5,000° TO 10,000 FT		UNDER 5,000 FT			100.0%	5.0%	0.02	
WORK SPACE				200 SF	250 SF	300 SF	350 SF			100.0%	10.0%	-6	
	< MULTIPL	LE SHIFTS.											
WORK WEEK		1 1					4-10s / 5-8s			100.0%	15.0%	0.15	
50 HOUR WORK WEEK	M MULTIPLE	= 0	HIET IIIIIIII	OVER 7 WEEKS	3 TO 7 WEEKS	UP TO 3 WEEKS							
60 HOUR WORK WEEK			OVER 7 WEEKS	3 TO 7 Weeks	UP TO 3 WEEKS			·					
SHIFTWORK 2nd Shift 3rd Shift			3RD SHIFT		2ND SHIFT	-	OR ONE SHIFT ONLY			100.0% 100.0%	3.0%	0.03	
PROJECT SIZE					400M MH AND UP	300M TO 400M MH	200M TO 300M MH	200M MH OR LESS		105.0%	4.0%	0.042	
PLANT TYPE	·			REVAMP ONLY	REVAMP & NEW	NEW IN EXIST PLT	GRASS			80.0%	8.0%	0.064	
AREA/UNION INFLUENCE	STRONG		MILD		SOME		NONE			70.0%	10.0%	0.07	
NOTES	SIDEBED										100.0%	93.6%	
					EFFICIENCY	(AS A % OF	(AS A % OFF CHART MANHOURS)	OURS)				93.6%	
Z. FUR EXICRIUR WURR UNLT	_				MULTIPLIER	(TO BE APPLI	MULTIPLIER • (TO BE APPLIED TO CHART M.H.'S TO OBTAIN SITE M.H.'S)	A.H.'S TO OBT/	NIN SITE M.H.	S)		1.07	

EFFICIENCY FACTORS

PROJECT: **Electrical Station Utility Redistribution**

ESTIMATE NO. C3-2001-05-003

CLIENT: WBS NO.:

DOE

1.1.B,€ B

DATE: ESTIMATOR: Ed Lumbert

10-May-01

LOCATION: FERNALD

TASK NO.: BELEZ BFUDZ

Fluor Fernald, Inc.

EXAMPLE:

STANDARD CHART MANHOURS = NET 100 **EFFICIENCY FACTORS:** SITE SPECIFIC (SEE APPENDIX A 7% 7.0 S/T = BASE UNIT MANHOURS 107 OVERTIME PRODUCTIVITY FACTOR 0.00% 0 (SEE DETAIL WORKSHEET BACK-UP) 107 * TASK SPECIFIC (confined space, 0 high elevation, congestion, etc.) 107

* PPE SPECIFIC (Based on current data and estimating knowledge)

				PPE LI	EVEL							
		D	Mod.	'D'	Mod.	. "C"	С		C+		Е	3
PRODUCTIVITY I	HOURS	MH's	MULTIPLIER	MH's	MULTIPLIER	MH's	MULTIPLIER	MH's	MULTIPLIER	MH's	MULTIPLIER	MH's
(ASA%)/ADDMH's	4.00%	4	28.00%	30	66.00%	71	74.00%	79	96.00%	103	110.00%	11
IULTIPLIER)/TOTAL HRS	1.04	111.3	1.28	137	1.66	177.6	1.74	186.2	1.96	209.7	2.10	224.
TOTAL MULT. * SITE PROD.	1.1128		1.3696		1.7762		1.8618		2.0972		2.0972	
in a (SEE FD FERM Total hours days = (PPE	contaminat	t Productivity ted area if the TING SERVICES I Specific PPE to determine EALTH PHYS	REFERENCE Elevel divid material co	el cannot b MANUAL IN ed by 10 ho	e determin -6006 8.10) -bur working							
	11.0	Man Days	14.0	Man Days	18.0	Man Days	19.0	Man Days	21.0	Man Days	22.0	Man Day

THESE EFFICIENCY FACTORS WERE APPLIED INDIVIDUALLY THROUGHOUT THE ESTIMATE AT A TASK SPECIFIC LEVEL, TO OBTAIN A MORE ACCURATE ACCOUNT OF OVERALL EFFICIENCY IMPACT DUE TO PPE REQUIREMENTS IN HANDLING CONTAMINATED AND HAZARDOUS WASTE.

APPENDIX "B"

EFFICIENCY FACTORS

PROJECT:

Electrical Station Utility Redistribution

ESTIMATE NO. C3-2001-05-003

DOE

CLIENT: WBS NO.:

1.1.B.

DATE:

10-May-01 ESTIMATOR: Ed Lumbert

LOCATION: TASK NO.:

FERNALD BELEZ BEUDA

PPE MULTIPLIER DEVELOPEMENT

	D	mD	mC	С	C+	В
CREW SIZE & MAKE-L STANDARD	7	7	7	7	7	7
WORKER-BUDDY	0	0	0	0	0	0
SUPPORT TEAM	0	0	0	0	0	0
TOTAL CREW	7	7	7	7	7	7
CREW SIZE RATIO	1.00	1.00	1.00	1.00	1.00	1.00
AVAILABLE WORK TIME FACTOR	0.96	0.78	0.70	0.70	0.68	0.68
PPE LABOR PRODUCTIVITY FACTOR	1	1	0.86	0.82	0.75	0.70
NET PRODUCTIVITY RATIO	0.96	0.78	0.602	0.574	0.51	0.476
NET PRODUCTIVITY MULTIPLIER	1.04	1.28	1.66	1.74	1.96	2.10

These factors were based on Tables 6.1 and 6.2, Moderate Work Efforts, 66F to 85F temperature of 'Hazardous Waste Cost Control' by R.A.Selg. Modifications were made to reflect a 10 hour work day and no buddy system or support team for levels D, mC and C. The worker-buddy and support team members, if required, may be covered under Construction Mgmt. (Rad Techs).

AVAILABLE WORK TIME FACTOR	D	mD	mC	С	C+	В
TOTAL WORK MINUTI 4 - 10's	600	600	600	600	600	600
ADDITN'L.SITE SAFETY MEETINGS QUANTITY	1	1	1	1	1	1
MINUTES	25	25	25	25	25	25
TOTAL	25	25	25	25	25	25
PPE DON & DOFFING QUANTITY	0	0	3	. 3	3	3
(ADJUST LEVEL D per WORK PLAN MINUTES	이	0	15	15	20	20
TOTAL		0	45	45	60	60
WORK BREAKS QUANTITY	N/A	2	2	2	2	2
(ADJUST LEVEL D per WORK PLAN MINUTES	N/A	15	15	15	15	15
TOTAL	1	30	30	30	30	30
MOBILIZATION - ROUND TRIPS QUANTITY	N/A	4	4	4	4	4
(ADJUST LEVEL D per WORK PLAN MINUTES	N/A	15	15	15	15	15
TOTAL	1	60	60	60	60	60
COOLDOWNS PER DAY QUANTITY	N/A	4	4	4	4	4
** (4 OUT OF 12 MON 33.33% MINUTES	N/A	15	15	15	15	15
TOTAL	1	20	20	20	20	20
AIR TANK REPLACEMENT QUANTITY	N/A	N/A	N/A	N/A	N/A	N/A
MINUTES	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL						
AVAILABLE WORK TIME	575	465	420	420	405	405
AVAILABLE WORK TIME FACTOR	0.96	0.78	0.7	0.7	0.68	0.68

NOTE: Adjust 'Work Minutes per Day' basis to: 5 - 8's, or leave as 4 - 10's. Any other circumstances, over-ride the minutes per day.

^{**} Assumption based on work performed in May, June, July & August, pro-rating cost over one year. Adjust % to individual circumstances.

HEALTH PHYSICS

PROJECT:

Electrical Station Utility Redistribution

ESTIMATE NO C3-2001-05-003

CLIENT: WBS NO.: DOE

LAUNDRY COST per CHANGE

1.1.B.Z.B

Fluor Fernald, Inc.

DATE:

TASK NO.:

\$0

D

10-May-01

ESTIMATOR: Ed Lumbert LOCATION: FERNALD

BELE2

Bruda

PPE's - PERSONAL PROTECTIVE EQUIPMENT

		UNIT	NO. OF CHANGE OUTS PER WORKER PER DAY						
DESCRIPTION	UNIT	COST	Man Da	fan Days (TOTAL HOURS worked in PPE's Div. by WORK HOURS/D					
PPE LEVEL C / C+		\$'s	•	MAN DAYS	MAT'L.\$'s	LEVEL			
LAUNDRY COST per CHANGE	SET	1.96	1	0	\$0	C/B			
TYVEK COVER-ALL w/HOOD & BOOTIES - DIS	EA	4.46	3	0	\$0	C/B	1		
TYVEK COVER-ALL W/HOOD & BOOTIES - DIS	EA	4.46	3	0	\$0	C/B	1		
GLOVE LINER - DISPOSABLE	PR	0.24	3	0	\$0	C/B	1		
GLOVE, LASTEX - DISPOSABLE	PR	0.26	3	0	\$0	C/B	1 .		
GLOVE, WORK - DISPOSABLE	PR	1.02	3	0	\$0	C/B			
APR CARTRIDGES - DISPOSABLE, CLEANING	PR	9.38	3	0	\$0	C/B	1		
SUB-TOTAL				0	\$0				
				\$/MD =	#DIV/0!		-		
PPE LEVEL mC			1						
RESS W/ FACE SHIELD		\$'s		MAN DAYS	MAT'L.\$'s	LEVEL	1		
LAUNDRY COST per CHANGE	SET	1.96	1	0	\$0	mC			
LT.WT. DISPOSABLE COVERALLS W/HOOD &	PR	4.46	3	0	\$0	mC]		
GLOVE LINER - DISPOSABLE	PR	0.24	3	0	\$0	mC			
GLOVE, LASTEX - DISPOSABLE	PR	0.26	3	0	\$0	mC			
GLOVE, WORK - DISPOSABLE	PR	1.02	3	0	\$0	mC			
SUB-TOTAL				0	· \$0	mC			
				\$/MD =	#DIV/0!		•		
PPE LEVEL D						•			

SET

			QTY. Per	NO. OF			
SUBCONTRACTOR REQUIRED PURCHASES	UNIT		WKR.	WORKERS	MAT'L. \$'s	LEVEL	
RUBBER BOOT COVERS-(1)PR.PER WORKER	PR	12.70	6	0	\$0	DICIB	
APR w/HALF FACE MASK - (1) PER WORKER	EA	22.30	6	0	\$0	C	7
APR w/FULL FACE MASK - (1) PER WORKER	EA	174.00	6	0	\$0	C	1 .
SCBA	EA	1894.00	2	0	\$0	В	1
COOL VESTS	EA	137.50	6	0	\$0	C/B	1
THERMO STRIPS	EA	50.00	6	0	\$0	C/B	1
SUB-TOTAL					\$0	C/B]

1.96

Total PPE Matl \$ and Laundry \$ \$0 (FORWARD TO PAGE 2 OF 2)

OTHER PPE'S SUCH AS HARD HAT, SAFETY GLASSES/GOGGLES, STEEL TOED SAFETY SHOES, HEARING PROTECTION, ARE CONSIDERED THE SUBCONTRACTORS RESPONSIBILITY AND ARE COVERED IN HIS OVERHEAD EXPENSE. FD FERNALD SUPPLIED PPE'S, SUCH AS COTTON COVERALLS, EXCHANGE OF RUBBER BOOT COVERS AND RESPIRATORS FOR CHANGEOUTS AND CLEANING OF SAME IS INCLUDED.

HEALTH PHYSICS

PROJECT: Electrical Station Utility Redistribution

ESTIMATE NO C3-2001-05-003

CLIENT:

DOE

WBS NO.: 1.1.B.0 6

1

DATE: 10-May-01

ESTIMATOR: Ed Lumbert LOCATION: FERNALD

TASK NO.: BELEZ-BEUDA

-MEDICAL MONITORING -

MEDICAL - PHYSICAL and IN-VIVO	MONITOR	ING - LOST	WOR	KER T	IME for RAD II	WORKERS ONL	.Y
DESC. PHYSICAL (3hrs), IN-VIVO (1hr)	ΩТΥ	HRS	П	VKR	TOTAL Hours	AVG. Labor Rate	TOTAL Labor \$
BASELINE PHYSICALS	1		4	3	12	\$37.02	\$440
ANNUAL PHYSICALS	0		4	3	0	\$37.02	\$0
EXIT (TERMINATION) PHYSICALS (IN-VIVO)	1		1	3	3	\$37.02	\$110
SUB-TOTAL							\$550

RADIATION I	N-VITRO SURVEILLA	VCE - LOST	WORKER	TIME for RAD	II WORKERS O	NLY	
DESC.	ату	HRS	WKR	TOTAL Hours	AVG. Labor Rate	TOTAL LABOR \$	
BI-MONTHLY BIOASSAY	0	1	3	1	\$37.02	\$50	
SUB-TOTAL						\$50	

RA	NDOM DRU	JG TESTI	NG			
	TESTS	HRS	TOTAL HRS	AVG. RATE	LABOR \$'s	
	0	2	0	\$37.02	\$ 0	
NO. OF	TESTING	AVG. NO.	CHANCE	NO. OF WKRS.	CHANCES	CONSTR
WKRS.	DAYS	OF TESTS	DAY	FOR THIS	IDAY FOR TEST	WORKING
TESTED	PER YR.	PER DAY	FOR TEST	ESTIMATE	for this PROJECT	DAYS
2500	226	11	0.0044	3	0.0132	20

	LABOR \$'S THRU SAFETY LABOR \$'S	
WORK DELAYS CAUSED BY MONITORING 1.0%	\$17,360 \$200	
	LABOR \$'s	
WORK DELAYS CAUSED BY RAD CHECKING 1.0%	\$17,360 \$200	
TOTAL PERSON OF THE STEERING 1.0/2	417,300 4200	

	TOTAL	TOTAL	GRAND
	LABOR	MAT'L.	TOTAL
TOTAL HEALTH PHYSICS - FORWARD TO ESTIMATE SUMMARY SHEET	\$1,000	\$0	\$1,000

ACTIVITY DURATIONS

PROJECT: Electrical Station Utility Redistribution

ESTIMATE N C3-2001-05-003

CLIENT: DOE WBS NO.: 1.1.B. \$\mathcal{B}\$

Fluor Fernald, Inc.

DATE:

10-May-01

ESTIMATOR: Ed Lumbert LOCATION: FERNALD

TASK NO.: BELEZ

BFUDA

ACTIVITY	EST. DATE	START DATE	MID Point	COMPL. Date	ACTIVITY	DURATION
CONSTRUCTION:	08-May-01	01-Sep-02	16-Sep-02	01-0ct-02	1.0	MONTHS
					0	MONTHS
TOTAL					1.0	MONTHS

-	DATE of EST.	
-	CTIVITY DURA	TION
a.	18.3	MONTHS
b.	0	MONTHS

ACTIVITY	EST. Date	START Date	MID POINT	COMPL. Date	ACTIVITY	DURATION
OPERATIONS					0	MONTHS

DATE of EST.	
0	MONTHS

ACTIVITY DURATION IS USED IN DETERMINING NUMBER of WORKERS for CERCLA/SAT TRAINING HOURS and HEALTH PHYSICS COSTS.

	•	

COST IMPACT MATRIX SHEET

C3-2001-05-003 Electrical Station Utility Redistribution DOE 1.1.B $\mathcal{L}\mathcal{B}$

Estimate No.: Project: Client: WBS:

Fluor Fernald, Inc.

Est. Chg. N. B<u>ELE2</u>— BFUDA Date: 10-May-01 Estimator: Ed Lumbert Location: FERNALD

		ement	Cost El	Cost Element	Cost Element	ement	Cost E	Cost Element	Cost Element	lement	Cost Element	ement
lotai	obilization & l	Demobilization	Demobilizatic oblitzation & Demobilizatic oblitzation & Demobilizatic oblitzation & Demobilizatic oblitzation & Demobilizatic	Demobilization	obilization & L	Jemobilizatic	obilization &	Demobilization	obilization & I	Demobilization		
\$23,080	LABOR \$	JR \$	S/C \$. \$	MAT	MAT'L. \$	EQU	EQUIP. \$	PPE \$	щ №		
Cost	Base \$	\$10,380	Base \$	0\$	Base \$	0\$	Base \$		Base \$	0\$	Base \$	0\$
Drivers	Low	High	γοη	High	Low	High	Low	High	Low	High	Low	High
Productivity	.1%	8%										
Unit Pricing					-1%	8%	.1%	%8	-1%	8%		
Contamination												
Technology												
Regulations/Laws												
Quantity Variation												
Project Definition	-1%	%9										
Other												
Range - %	-5%	13%	%0	%0	.1%	%8	.1%	%8	-1%	8%	%0	%0
Range - \$	\$10,172	\$11,729	0\$	0\$	0\$	0\$	#VALUE!	#VALUE!	0\$	0\$	\$	0\$
Distribution) 											
Correlation Rank												

	Cost Ele	ement	Cost E	Cost Element	Cost Element	ement	Cost Element	ement	Cost Element	lement	Cost Element	ement
	ľ			C								
	LABOF	OR \$	S/C \$	3 \$	MAT'L. \$.r. s	EQUIP. \$	IP. \$	PP	PPE \$		
Cost	Base \$	0\$	Base \$	0 \$ ·	Base \$	0\$	Base \$		Base \$	0\$	Base \$	0\$
Drivers	Low	High	Low	ЧбіН	Low	High	Low	High	Low	High	Low	High
Productivity	-1%	15%										
Unit Pricing					-1%	12%	.1%	10%	%1.	%8		
Contamination							-1%	10%				
Technology												
Regulations/Laws												
Quantity Variation					-1%	2%						
Project Definition	-1%	2%										
Other												
Range - %	-2%	20%	%0	%0	-2%	17%	-2%	20%	-1%	%8	%0	%0
Range - \$	\$0	\$0	0\$	0\$	\$0	0\$	#VALUE!	#VALUE!	0\$	0\$	\$0	\$
Distribution												
Correlation Rank												



Cllent:

COST IMPACT MATRIX SHEET

C3-2001-05-003 Electrical Station Utility Redistribution DOE 1.1.B.Ø Estimate No.: Project: Client: WBS:

Fluor Fernald, Inc.

BFUDS

Est. Chg. Nr BELEG.
Date: 10-May-01
Estimator: Ed Lumbert
Location: FERNALD

	Cost Ele	lement	Cost Element	lement	Cost Element	lement	Cost E	Cost Element	Cost Element	ement	Cost Element	ement
	25C - Sewage		Lift Station 25C · Sewage Lift Station 25C · Sewage Lift Station 25C · Sewage Lift Station 25C · Sewage Lift Station	e Lift Station	25C - Sewage	e Lift Station	25C - Sewag	e Lift Station	25C - Sewage	e Lift Station		
	LABO	OR \$	S/C \$; s	MAT'L. \$.r. s	EQU	EQUIP. \$	PPE \$	E \$		
Cost	Base \$	086'2\$	Base \$	0\$	Base \$	\$4,720	Base \$		Base \$	0\$	Base \$	0\$
Drivers	Low	High	γογ	y 6jH	Low	High	Low	High	Low	High	Low	High
Productivity	-1%	15%										
Unit Pricing					.1%	10%	-1%	10%	.1%	8%		
Contamination	.1%	%8							-1%	8%		
Technology												
Regulations/Laws												
Quantity Variation					.1%	%9						
Project Definition	.1%	%9										
Other												
Range - %	%6-	782	%0	%0	-2%	15%	-1%	10%	-5%	16%	%0	%0
Range - \$	\$7,741	\$10,214	0\$	\$0	\$4,626	\$5,428	#VALUEI	#VALUE!	\$0	\$0	\$0	\$0
Distribution												
Correlation Rank												

	Cost E	Cost Element	Cost Element	ement	Cost Element	lement	Cost E	Cost Element	Cost Element	lement	Cost Element	lement
		0						e				
	LABOF	OR \$	S/C \$	*	MAT'L. \$	1.5	EQU	EQUIP. S	PP	PPE \$		
Cost	Base \$	0\$	Base \$		Base \$	0\$	Base \$		Base \$	0\$	Base \$	\$0
Drivers	Low	High	Low	High	TOW	High	Low	High	Fow	чбіН	Low	High
Productivity	-1%	12%										
Unit Pricing					%1-	8%	-1%	12%	-1%	%8		
Contamination	-1%	10%										
Technology												
Regulations/Laws												
Quantity Variation	-1%	2%			%1-	2%	-1%	2%				
Project Definition												
Other												
Range - %	-3%	27%	%0	% 0	-5%	13%	-2%	17%	-1%	%8	%0	%0
Range - \$	\$0	\$0	0\$	\$0	0\$	\$0	#VALUE!	#VALUE!	\$0	\$0	\$0	\$0
Distribution												
Correlation Rank												

Analyst: Client:

COST ESTIMATE CHECKLIST - 5700.2D

ESTIN	//ATOR:	Ed Lumbert		DATE	05/09/01
WBS #	1.1.B.E	CHARGE #	BELE2	ESTIMATE #	C3-2001-05-003
	В		BFUDA).	

The Cost Estimate Checklist is to be used as a guide to the content of the estimate files. After the preliminary estimate has been completed, the estimator will fill out the checklist form. The completed checklist form will be attached to the cost estimate prior to the peer or supervisor review and will remain with the estimate. A copy of the approved estimate and checklist will be filed in the Estimating Services' files.

Which one of the six cost estimating methods was used in the preparation of the cost estimate? Please check one.

Bottoms-Up Technique	\boxtimes	Cost Review & Update Technique	
Specific Analogy Technique		Trend Analysis Technique	
Parametric Technique		Expert Opinion Technique	

Identify the cost guideline(s) used when performing the estimate.

FERMCO	\boxtimes	Historical Data	\boxtimes
Means	\boxtimes	Richardson's	\boxtimes
Page		Estimator's Judgment	
Walker's		Hazardous Waste Cost Control	
MCA		Other:	

		YES	NO
1.	Has a copy of the cost estimate been filed with the official baseline project estimate and previous estimates?		
2.	Each cost estimate should include the basis for the estimate. Does the cost estimate basis describe the:		
	a. Purpose of the project?	X	
	b. General design criteria?	X	
	c. State of design at the time of the estimate?	X	
	d. Significant features and components?	X.	
	e. Proposed methods of accomplishment?	X	
	f. Proposed construction schedule?	X	
Г	g. Research and development requirements?	X	
	h. Pertinent facts that may impact costs?	X	T
Г	i. Type of estimate?	X	

COST ESTIMATE CHECKLIST - 5700.2D

ESTIM	ATOR:	Ed Lumbert		DATE	05/09/01
WBS #	1.1.B £ B	CHARGE #	BELE2	ESTIMATE #	C3-2001-05-003

BFUDZ 3. Has the cost estimate been performed in constant-year dollars? X 4. Was a check estimate requested by the internal or external client? X If so, was the check estimate performed to validate the cost estimate? 5. Does the cost estimating method used reflect the project's phase of acquisition Х and degree of definition, the state-of-the-art of the project, the availability of the data bases, and the work breakdown structure? 6. Was a standardized list of cost categories/codes used in the estimate? Χ 7. Does the cost estimate show the basis for: a. Estimating quantities of materials not yet detailed in drawings? Х b. Wage rates? Χ c. Productivity factors? Х d. Installation unit man-hours? Χ 8. Was the cost estimate performed per the Project Control System Application Χ Guide Procedure, PCS-002? 9. If a construction project estimate was performed, did the estimate include a Χ contingency/risk analysis? 10. Has the cost estimate been reviewed by someone other than the estimator? Х Were the comments recorded and signed by the reviewer and re-posited? Χ 11. Does the estimate include the following documentation? a. The technical description and the scope of the project being estimated. Χ The technical constraints, ground rules, and assumptions. Х c. A detailed traceable recording of how the estimate was performed and who X performed it. d. A supporting schedule. X

PROJECTS CONTROLS ESTIMATING SERVICES

May 8, 2001

PROJECT DESCRIPTION: Liquid Storage Utility Redistribution

WBS NUMBER: 1.1.B.FB

PROJECT ENGINEER: Harry Gear

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-006

BASIS OF ESTIMATE

SUPPORTING DOCUMENTATION:

Verbal Scope	\boxtimes	P & ID's		Work Plan	
Drawings		Equipment List		Site Walk	\boxtimes
Sketches		Specifications		Eng. Mtg.	
Flow Diagrams		Written Scope	\square	Estimate	

TYPE OF ESTIMATE:

Change Proposal		Government	
Plan/Feasibility		Conceptual	
Construction		Title I Design	
Budget	\boxtimes	Independent	

BASIS OF ESTIMATE:

Prepare a control estimate to determine the cost of Utility Redistribution for Building 45A – Maintenance Machine Shop. Estimate to include manhours, labor, material, equipment, and subcontract costs for the following scope of work:

Refeed electric panel west of 45A from 13.2kv transformer feeding extraction well.

Reroute telephone cables out of 45A and into T58 and redistribute to other trailers.

Install fire alarm panel in T58 and reroute cables from trailers to new panel.

PROJECTS CONTROLS ESTIMATING SERVICES

May 8, 2001

PROJECT DESCRIPTION: Liquid Storage Utility Redistribution

WBS NUMBER: 1.1.B.F B

PROJECT ENGINEER: Harry Gear

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-006

ESTIMATE ASSUMPTIONS

EXECUTION:
This project is to be performed on a 40-hour week, 10 hours a day.
This project is to be performed on a 40-hour week, 8 hours a day.
Premium time allowed.
WAGE RATES:
Wage rates within this estimate are based on Project Labor Agreement rates, effective October 2000 and are considered FY01 dollars for estimating.
☑ Wage rates within this estimate are based on FF Support Contractor FSC 599 wage rates,
effective October 1999 have been escalated 3% and are considered FY01 dollars for estimating.
Wage rates within this estimate are based on FF FTE Planning Labor Rates FY01.
ENGINEERING:
N/A
Engineering dollars provided by the Project Engineer.
Engineering dollars have been factored in at the standard 12% of the total direct and indirect
field costs as per request of Project Engineer.
CONSTRUCTION MANAGEMENT:
⊠ N/A
Construction Management dollars provided by the Project Engineer. Construction Management dollars have been factored in at the standard 30% of the total direct and indirect field costs as per request of Project Engineer.
and mandet held decided by per request of the jest Engineer.
PROJECT MANAGEMENT:
⊠ N/A
Project Management dollars provided by the Project Engineer.
Project Management dollars have been factored in at the standard 30% of the total direct and
indirect field costs as per request of Project Engineer.
WASTE PROGRAM MANAGEMENT:
⊠ N/A
Waste Program Management dollars provided by the Project Engineer.

PROJECTS CONTROLS ESTIMATING SERVICES

May 8, 2001

PROJECT DESCRIPTION: Liquid Storage Utility Redistribution

WBS NUMBER: 1.1.B.F.B

PROJECT ENGINEER: Harry Gear

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-006

PRODUCTIVITY:

A productivity factor has been developed and applied to the unit man-hours derived from MEANS, Richardson, NECA, and or any other published estimating source. See attachment APPENDIX "A" and APPENDIX "B".

ESCALATION:

Escalation costs are excluded from the target estimate. The escalation costs are calculated within the Micro-Frame computer system according to the plan for rebaselining.

UNIT RATES:

Unit man-hours, equipment and material dollars are based on Richardson, MEANS, NECA, and or other published rates.

G & A (HO EXPENSE):

G & A are excluded from the target estimate. The G & A cost are calculated within the Micro-Frame computer system according to the plan for rebaselining.

HEALTH PHYSICS:

See attached APPENDIX "C".

RISK BUDGET:

A cost element, based on a Risk Analysis calculated for this estimate to cover a statistical probability of a 50% chance of overrun/under run to the project. The target estimate is the sum of the base estimate and the risk budget.

CONTINGENCY:

An amount budgeted to cover costs that may result from incomplete design, unforeseen and unpredictable conditions, or uncertainties. Contingency is calculated as the delta between the 50% chance of overrun and the 5% chance of overrun, indicated on the risk analysis.

PROJECTS CONTROLS ESTIMATING SERVICES

May 8, 2001

PROJECT DESCRIPTION: Liquid Storage Utility Redistribution

WBS NUMBER: 1.1.B.F B

PROJECT ENGINEER: Harry Gear

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-006

ESTIMATE INCLUSIONS & EXCLUSIONS

INCLUSIONS:

- Premobilization & Mobilization.
- Demobilization.
- Labor hours.
- Material dollars.
- Equipment dollars.

EXCLUSIONS:

- Premium time.
- Permits and fees.
- FF G & A (Home Office Expense).
- Construction Management.
- Any second tier subcontract costs.
- Project Management dollars.
- Waste Management dollars.

SUPPORT CONTRACTOR ESTIMATE SUMMARY SHEET

PROJECT:

Liquid Storage Utility Redistribution

DATE:

10-May-01

ESTIMATE NO.: C3-2001-05-006

ESTIMATOR: Ed Lumbert LOCATION:

FERNALD

CLIENT: WBS NO.: DOE

Fluor Fernald, Inc.

BLODZ BEUDA

WBS NO.: 1.1.B & B		man	٠, ١١١٠	=		TASK NO:	BLQD2
DESCRIPTION	M/H	AVG.	SPT.CONT.		FERNAI		
		RATE	LABOR \$	S/C / OTHER	MAT'L \$	EQUIP \$	TOTAL \$
Mobilization & Demobilization	174		\$6,600		\$30		\$30
454 Million 11 01							
45A - Maint. Machine Shop	344		\$12,400		\$18,100	\$1,600	\$19,700
SUPPORT CONT. / FF D. F. COST TOTAL	519	\$36.64	\$19,000		\$18,130	\$1,600	\$19,730
SUPERVISION	9 9		\$5,100				
SMALL TOOLS & CONSUMABLES					\$2,100		\$2,100
MISC. EQUIP.RENTAL							
JOB CLEAN-UP	25		\$900		\$300		\$300
SAFETY	11		\$400		\$200		\$200
HEALTH PHYSICS S/C	38		\$1,400				
JOB SPECIFIC TRAINING							
SUPPORT CONT. INDIRECT FIELD COST TOTAL	173		\$7,800				
SUPPORT CONT. TOTAL BILLABLE COSTS	691	\$38.78	\$26,800				
TEMPORARY FACILITIES							
TEMPORARY UTILITY HOOK-UP							
FD FERNALD SALES TAX					\$1,200	\$100	\$1,300
FF INDIRECT FIELD COSTS TOTAL					\$3,800	\$100	\$3,900
FF DIRECT & INDIRECT FIELD COSTS TOTAL	·				\$21,930	\$1,700	\$23,630
FF and SUPT.CONT. DIRECT & INDIRECT FIELD COST	TOTAL		\$26,800		\$21,930	\$1,700	\$50,430
SUB-TOTAL (BASE ESTIMATE)							\$50,430
TARGET ESTIMATE (FY 01 D	OLLARS)					\$50,430
		<u> </u>					
ESTIMATE PERFORMED E							

SUPPORT CONTRACTOR ESTIMATE SUMMARY SHEET

PROJECT: Liquid Storage Utility Redistribution

ESTIMATE NO.: C3-2001-05-006 DOE

FACTORS

DATE: 10-May-01

ESTIMATE NO.: C3-2001-05-006		FACTO	RS			ESTIMATOR	: Ed Lumbert	l
CLIENT: DOE WBS NO.: 1.1.B. &						LOCATION: TASK NO.:	FERNALD BLODE	upa
•	SUPT.CONT	FD FERNAL(PROJECT	
	LABOR \$	LABOR \$	S/C \$	MAT'L. \$	EQUIP. \$	PPE \$	TOTAL \$	
DFC DOLLARS	\$19,000			\$18,130	\$1,600		\$38,730	İ
IFC COST FACTOR	1.4105	1.0000		1.1434	1.0000	-		
SALES TAX COST FACTOR	-	-	-	1.0600	1.0600	1.0600		
BOND + OVERHEAD & PROFIT COST FACTOR	N/A	N/A	N/A	N/A	N/A	N/A		9
DIRECT FIELD COST FACTOR =	1.4105	1.0000		1.2120	1.0600	1.0600		
DIRECT BASE ESTIMATE \$'s	\$26,800			401.074	44.000		450 470	
DIRECT DASE ESTIMATE \$ \$	\$20,000			\$21,974	\$1,696	l	\$50,470	
RISK BUDGET FACTOR	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000		
DIRECT TARGET ESTIMATE FACTOR	1.4105	1.0000		1.2120	1.0600	1.0600		
SINCOT FAIGLE ESTIMATE FACTOR	1.4.03	1.0000		1.2120	1.0000	1.0000		
DIRECT TARGET ESTIMATE (FY00 DOLLARS)	\$26,800			\$21,974	\$1,696		\$50,470	

^{1.)} If there are no equipment rental costs in the "Directs" (0 \$'s in 120) and the default allowance of \$3.50 per MH has been used in the "indirects", input the indirect Equip. \$'s in H62 and put a dash in H63. This will treat the Equip. \$'s as direct cost and apply the sales tax factor. On page 3 below, insert the equipment \$'s in any pay items that apply.

	Liquid Storage Utility Redistribu : C3-2001-05-006	Direc	t Field Co				DATE: ESTIMATOR	10-May-01 I: Ed Lumbert	
CLIENT:	DOE 1.1.8. F B		ACTOR	<u>S</u>	1		LOCATION:		
WBS NO.:	1.1.8.7 19	SUPPORT Cont.	FF		<u> </u>		TASK NO.:		BRUD
PAY ITEM NO.	DESCRIPTION	LABOR \$	LABOR \$	S/C \$	MAT'L.\$	EQUIP. \$	PPE \$	PROJECT TOTAL \$	ł
	PPE	·							
	Mobilization & Demobilization	6600 \$9,310			30 \$40	•		\$9,350	
		70,010						\$9,350	
						•			
	45A · Maint. Machine Shop	12400 \$17,490			18,100 \$21,940	1,600 \$1,700		\$41,130	
						•			
					-				
		-							2
	·				-	•			
			•						
						-			
				:					
							* .		,
					·				
								·	
SUB-TOTAL - SU	PPORT CONTRACTOR	\$26,800						\$26,800	
UB-TOTAL - FF		т т			\$21,980	\$1,700		\$23,680	

NOTE: The above costs exclude any FD Fernald support costs that may appear on page 1 & 2, such as Waste Disposition, Engineering, Project Management, or Construction Management.

1 of 3

s'hentdenthrodent estimates 68 wittity released no 2001 tota 02/08 total determents 2001 total 02/08 total determents 2001 total 02/08 total determents 2001 total 02/08 total determents 2001 total 02/08 total determents 2001 total 02/08 total determents 2001 total 02/08

Liquid Storage Utility Redistribution C3-2001-05-006 DOE

PROJECT:

ESTIMATE NO.:

CLIENT:

1.1.B.F.B.

Fluor Fernald, Inc.

ESTIMATO Ed Lumbert 10-May-01

LOCATION: FERNALD

TASK NO.: BLODE GRUDS \$6,630 \$32,100 \$38,730 TOTAL \$1,600 \$1,600 EOUIP \$18,100 \$30 \$18,130 MATIL S/C \$6,600 \$12,400 \$19,000 LABOR Equip Mat'l COST / UNIT SIC Labor 519 \$36.64 Rate MAN-HOURS 344 Total 174 ij. UNIT ΩŢ Mobilization & Demobilization 45A - Maint. Machine Shop DIRECT COST SUMMARY DIRECT COST SUMMARY WBS NO.:

2 of 3

PROJECT: Liquid Storage Utility Redistribution ESTIMATE NO.: C3-2001-05-006 CLIENT: D0E

1.1.B.F.B WBS NO.:

Fluor Fernald, Inc.

LOCATION: FERNALD TASK NO.: BLOD2 GCUD3 DATE: 10-May-01
ESTIMATO Ed Lumbert

Mobilization & Demobilization Bloom built ation & Demobilization & Demobilization Brown Temporary Utilities	PPE	PE Mobilization & Demobilization	OTY	TIN	2	MAN-HOURS	S		00	COST/UNIT		LABOR	SIC	MAT'L	EOOIP	TOTAL
60 hr 1.000 82 38.12 by FDF \$3,130 at 1.000 82 38.12 by FDF \$3,130 at 1.00 by FDF \$3,130	LEV.	EL .			Unit	Total	Rate	Labor	S/C	Mat'i	Equip					
60 hr 1.000 82 38.12 3.00 by FDF \$3,130 \$30 10 hr 0.500 10 33.34 3.00 by FDF \$3,130 \$30 10 hr 0.500 174 \$37.83 \$6,600 \$30	Ē	Mobilization D Install Temporary Utilities	09	۲	1.000		38.12				by FDI					\$3,130
174 \$37.83 \$6,600 \$30	ē Ċ		00 0	ξĘ	1.000		33.34			ဝိ ဗ		\$3,130 \$350				\$3,130
		Mobilization & Demobilization				174	\$37.83					\$6,60		\$30		\$6,630

Liquid Storage Utility Redistribution PROJECT:

C3.2001.05.006 **ESTIMATE NO.:**

CLIENT:

1.1.BJF B WBS NO.:

Fluor Fernald, Inc.

TASK NO.: BEEBP GFUD D

ESTIMATO Ed Lumbert

LOCATION: FERNALD

10-May-01

DATE:

\$8,614 \$375 \$4,930 \$2,750 \$1,600 \$640 \$975 \$2,383 \$1,369 \$1,795 \$1,025 \$1,375 \$32,100 TOTAL \$1,600 \$1,600 EOUIP \$1,825 \$50 \$7,100 \$525 \$18,100 \$375 \$4,150 \$800 \$1,125 \$1,405 \$50 \$400 \$250 MAT'L S \$1,950 \$1,514 \$574 \$975 \$12,400 \$780 \$390 \$1,950 \$244 \$390 \$975 \$975 \$104 \$558 \$975 LABOR 80.00 Equip ,100.00 525.00 375.00 20.75 20.00 3.65 250.00 2.50 1,125.00 2.81 Mat' COST / UNIT S Labor 38.12 35.60 35.60 35.60 35.60 35.60 38.12 35.60 35.60 35.60 35.60 35.60 35.60 35.60 \$36.04 Rate MAN-HOURS 55 40 16 16 27 က 22 11 27 55 11 27 27 344 Total 1.000 29.00 11.765 0.080 1.000 1.000 0.023 5.000 8.000 1.000 ij Refeed electric panel west of 45A from 13.2kv ea 500 If 20 hr ea ea <u>←</u> 호호호호 ea <u></u>
<u></u>
<u></u>
<u></u> S ea Reroute telephone cables out of 45A and Install fire alarm panel in T58 and reroute 2422 200 into T58 and redistribute to other trailers. 202 500 Ωĭ cables from trailers to new panel. mD Guy Wire, Anchor, Hardware fo mD|Auger/Bucket Truck Rental w/O transformer feeding extraction 45A - Maint. Machine Shop 45A - Maint. Machine Shop mD Overhead Comm/Phone Line mD|Disconnect Switch, 480v 3ph mD Overhead Honeywell Cab mD Allowance for Hardware mD Allowance for Hardware mD 480v Overhead Cable mD Transformer, 13.2kv mD Survey and Layout mD Telephone Tie-in mD Fire Alarm Panel mD Honeywell Tie-in mD Electrical Tie-in mD|Lock and Tag mD Power Pole PPE

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			•	
			·	
			·	

PROJECT: Liquid Storage Utility Redistribution	e Utility Redis	tribution			SITE SPECIFIC	SIFIC						10-May-01	
ESTIMATE NO C3.2001-05-0 CLIENT: DOE WBS NO: 1.1.8. γ	90			EFFICIENCY	EFFICIENCY / MULTIPLIER ANALYSIS	ANALYSIS					ESTIMATOR: LOCATION: TASK NO.:	Ed Lumbert FERNALD B LODZ	GFUDA
PERCENT OF INFLUENCE ON CHAF	NFLUENCE ON	CHART MANHOURS	OURS										
	40%	20%	%09	%0 <i>L</i>	%08	%06	100%	105%	110%	% OF INFLUENCE	WT'D VALUE	PROD. RESULT	
CRAFT SKILL (NOTE 1)	POOR		·	FAIR			STD	V.G00D	EXCELLENT	100.0%	12.0%	0.12	
CRAFT AVAIL.(NOTE 1)		POOR		FAIR			STD			100.0%	8.0%	0.08	•
CLIMATE (NOTE 2)	SEVERE	ICEISNOW			RAIN		+40 T0 +85			90.0%	20.0%	0.18	
PLANT ELEVATION		0VER 10,000FT			5,000' TO 10,000 FT		UNDER 5,000 FT			100.0%	5.0%	0.05	
WORK SPACE	 	LE SHIFTS.		200 SF	250 SF	300 SF	350 SF			100.0%	10.0%	1.0	
WORK WEEK							4.10s / 5.8s			100.0%	15.0%	0.15	
50 HOUR WORK WEEK	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	l≣ _	OVER 7 WEEKS	3 TO 7 Weeks	UP TO 3 WEEKS							
60 HOUR WORK WEEK			OVER 7 WEEKS	3 TO 7 Weeks	UP TO 3 WEEKS								
SHIFTWORK 2nd Shift 3rd Shift			3RD SHIFT		2ND SHIFT		OR ONE SHIFT ONLY			100.0% 100.0%	3.0%	0.03	
PROJECT SIZE	·				400M MH AND UP	300M TO 400M MH	200M TO 300M MH	200M MH Or Less		105.0%	4.0%	0.042	
PLANT TYPE				REVAMP ONLY	REVAMP & NEW	NEW IN	GRASS ROOTS		·	80.0%	8.0%	0.064	
AREA/UNION INFLUENCE	STRONG		MILD		SOME		NONE			%0.0 <i>L</i>	10.0%	0.07	
NOTES											100.0%	93.6%	
1. FUNDATED THAS BEEN CON-	Sintention				EFFICIENCY	(AS A % OFF	(AS A % OFF CHART MANHOURS)	URS)				93.6%	
					MULTIPLIER.	(TO BE APPLI	MULTIPLIER - (TO BE APPLIED TO CHART M.H.'S TO OBTAIN SITE M.H.'S)	.H.'S TO OBTA	IN SITE M.H.'	(8		1.07	

APPENDIX "A"

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					APPENDIX	. Y .						
PROJECT: Utility Redistribut	Utility Redistribution · Leb Complex				SITE SPECIFIC	FIC					DATE:	10-May-01
1				EFFICIENCY	EFFICIENCY / MULTIPLIER ANALYSIS	ANALYSIS			-	•	ESTIMATOR: LOCATION: TASK NO.:	Ed Lumbert FERNALD BLABE A F
PERCENT OF	INFLUENCE ON	PERCENT OF INFLUENCE ON CHART MANHOURS	OURS									
	40%	80%	%09	%02	%08	%06	100%	105%	110%	% OF INFLUENCE	WT'D VALUE	PROD. RESULT
CRAFT SKILL (NOTE 1)	POOR			FAIR			STD	V.G00D	EXCELLENT	100.0%	12.0%	0.12
CRAFT AVAIL.(NOTE 1)		POOR		FAIR			STD	·		100.0%	8.0%	0.08
CLIMATE (NOTE 2)	SEVERE	ICE/SNOW			RAIN		+40 T0 +85			%0.06	20.0%	0.18
PLANT ELEVATION		0VER 10,000FT			6,000' TO 10,000 FT		UNDER 5,000 FT			100.0%	80.9	0.06
WORK SPACE		_		200 SF	250 SF	300 SF	350 SF		•	100.0%	10.0%	0.1
	< MULTIPLE SHIFTS-	LE SHIFTS.										
WORK WEEK							4-10s / 5-8s			100.0%	15.0%	0.15
50 HOUR WORK WEEK	//// MULTIPLE	//////////////////////////////////////	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OVER 7 WEEKS	3 TO 7 WEEKS	UP TO 3 WEEKS						
60 HOUR WORK WEEK		annanaman anamanaman annanaman anamanam	OVER 7 WEEKS	3 TO 7 WEEKS	UP TO 3 WEEKS							
SHIFTWORK 2ND SHIFT 3RD SHIFT			3RD SHIFT		2ND SHIFT		OR ONE SHIFT ONLY			100.0%	3.0%	0.03
PROJECT SIZE					400M MH AND UP	300M TO 400M MH	200M TO 300M MH	200M MH OR LESS		105.0%	4.0%	0.042
PLANT TYPE			·	REVAMP ONLY	REVAMP & NEW	NEW IN	GRASS			80.0%	8.0%	0.064
AREA/UNION INFLUENCE	STRONG		MILD		SOME		NONE			70.0%	10.0%	0.07
NOTES	SIDERED									J	100.0%	93.6%
2. FOR EXTERIOR WORK ONLY					EFFICIENCY	(AS A % OFF	(AS A % OFF CHART MANHOURS)	URS)				93.6%
					MULTIPLIER . (TO BE APPLIED	MULTIPLIER - (TO BE APPLIED TO CHART M.H.'S TO OBTAIN SITE M.H.'S)	1.'S TO OBTAIN	SITE M.H.'S)			1.07

APPENDIX "B"

EFFICIENCY FACTORS

PROJECT: Utility Redistribution - Lab Complex ESTIMATE NO.: C3-2001-05-005

CLIENT:

WBS NO.:

1.1.B.F/B

Fluor Fernald, Inc.

DATE:

ESTIMATOR: LOCATION: TASK NO.:

10-May-01 Ed Lumbert FERNALD BLAB2

BRUDZ

EXAMPLE:

STANDARD CHART MANHOURS = <u>EFFICIENCY FACTORS</u>: SITE SPECIFIC (SEE APPENDIX A) NET 100 7% 7.0 S/T = BASE UNIT MANHOURS 107 OVERTIME PRODUCTIVITY FACTOR 0.00% 0 (SEE DETAIL WORKSHEET BACK-UP) 107 * TASK SPECIFIC (confined space, 0.0%

 PPE SPECIFIC (Based on current data and estimating knowledge)

high elevation, congestion, etc.)

			PI	PE LEVEL											
		D	Mod.'D	•	Mod	. "C"	(;	C.	-	E				
PRODUCTIVITY HOURS		MH's	NUL TRUBE	MH's	MALTPLER	MH's	MATPLER	MH's	-	MH's	MALTPLER	MH's			
(ASA%)/ADD MH's	4.00%	4	28.00%	30	66.00%	71	74.00%	79	96.00%	103	110,00%	118			
MULTIPLIER)/TOTAL HRS	1.04	111.3	1.28	137	1.66	177.6	1.74	186.2	1.96	209.7	2.10	224.			
TOTAL MULT. * SITE PROD.	1.1128		1.3696		1.7762		1.8618		2.0972		2.0972				
in a con (SEE FD FERNALD Total hours wo	taminated area ESTIMATING SEI rked in a speci	ctivity Factor of 't if the Safety Lev RVICES REFERENCE fic PPE level divic mine material cos PHYSICS)	el cannot be	determined 06 8.10)					186.2 1.96 209.7 2.1						
	11.0	Man Days	14.0	Man Days	18.0	Man Days	19.0	Man Days	21.0	Man Days	22.0	Man Days			

107

THESE EFFICIENCY FACTORS WERE APPLIED INDIVIDUALLY THROUGHOUT THE ESTIMATE AT A TASK SPECIFIC LEVEL, TO OBTAIN A MORE ACCURATE ACCOUNT OF OVERALL EFFICIENCY IMPACT DUE TO PPE REQUIREMENTS IN HANDLING CONTAMINATED AND HAZARDOUS WASTE.

APPENDIX "B"

EFFICIENCY FACTORS

PROJECT: ESTIMATE NO.: CLIENT: WBS NO.:

Utility Redistribution - Lab Complex C3-2001-05-005

1.1.B,Z B

Fluor Fernald, Inc.

ESTIMATOR d Lumbert LOCATION:FERNALD
TASK NO.: BLAB2

BFUD2

PPE MULTIPLIER DEVELOPEMENT

		_ D	mD	mC	C	C+	В
CREW SIZE & MAKE-UP	STANDARD	. 7	7	7	7	7	7
	WORKER-BUDDY		0	0	0	0	0
	SUPPORT TEAM	0	0	0	0	0	0
	TOTAL CREW	7	7	7	7	7	7
CREW SIZE RATIO		1.00	1.00	1.00	1.00	1.00	1.00
AVAILABLE WORK TIME FA	ACTOR	0.96	0.78	0.70	0.70	0.68	0.68
PPE LABOR PRODUCTIVIT	Y FACTOR	1	1	0.86	0.82	· 0.75	0.70
NET PRODUCTIVITY RATIO		0.96	0.78	0.602	0.574	0.51	0.476
NET PRODUCTIVITY MULT	IPLIER	1.04	1.28	1.66	1.74	1.96	2.10

These factors were based on Tables 6.1 and 6.2. Moderate Work Efforts, 66F to 85F temperature of 'Hazardous Waste Cost Control' by R.A.Selg. Modifications were made to reflect a 10 hour work day and no buddy system or support team for levels D, mC and C. The worker-buddy and support team members, if required, may be covered under Construction Mgmt. (Rad Techs).

AVAILABLE WORK TIME FACTOR			D	mD	mC	С	C+	В
TOTAL WORK MINUTES per D	4 - 10's		600	600	600	600	600	600
ADDITN'L. SITE SAFETY MEETIN	GS NOT INCLD	QUANTITY	1	. 1	1	1	1	1
		MINUTES	25	25	25	25	25	25
	TOTAL		25	25	25	25	25	25
PPE DON & DOFFING		QUANTITY	l ol	0	3	3	3	3
(ADJUST LEVEL D per WORK PL	AN)	MINUTES	0	o	15	15	20	20
	TOTAL		i i	ol	45	45	60	60
WORK BREAKS		QUANTITY	N/A	2	2	2	2	2
(ADJUST LEVEL D per WORK PL	AN)	MINUTES	N/A	15	15	15	15	15
•	TOTAL			30	30	30	30	30
MOBILIZATION - ROUND TRIPS		QUANTITY	N/A	4	4	4	4	4
(ADJUST LEVEL D per WORK PL	AN)	MINUTES	N/A	15	15	15	15	15
•	TOTAL			60	60	60	60	60
COOLDOWNS PER DAY		QUANTITY	N/A	. 4	4	4	4	4
" (4 OUT OF 12 MONTHS)	33.33%	MINUTES	NA	15	15	15	15	15
, , , , , , , , , , , , , , , , , , , ,	TOTAL		'''	20	20	20	20	20
AIR TANK REPLACEMENT		QUANTITY	N/A	NA	N/A	N/A	N/A	N/A
The state of the s		MINUTES	NA	N/A	N/A	N/A	N/A	NA
Υ/	OTAL	MILITO I LO	100	IVA		147	-140	140
AVAILABLE WORK TIME .	71AL		575	405	400	400		
			575	465	420	420	405	405
AVAILABLE WORK TIME FACTO	R		0.96	0.78	0.7	0.7	0.68	0.68

NOTE: Adjust Work Minutes per Day' basis to: 5 - 8's, or leave as 4 - 10's. Any other circumstances, over-ride the minutes per day.

^{**} Assumption based on work performed in May, June, July & August, pro-rating cost over one year. Adjust % to individual circumstances.

HEALTH PHYSICS

PROJECT:

Utility Redistribution - Lab Complex

ESTIMATE NO.:

C3-2001-05-005

1.1.B,E (b)

CLIENT: WBS NO.: DOE

Fluor Fernald, Inc.

DATE: ESTIMATOR: LOCATION:

TASK NO.:

\$0

#DIV/0!

0

\$/MD =

mC

10-May-01 **Ed Lumbert** FERNALD

BLAB2 BEUDZ

PPE's - PERSONAL PROTECTIVE EQUIPMENT

	1	UNIT	• NO. OF CHANGE OUTS PER WORKER PER DAY					
DESCRIPTION	UNIT	COST	Man Days (TOTAL HOURS worked in PPE's Div. by WORK HOURS/D					
PPE LEVEL C / C+		\$'8	•	MAN DAYS	MAT'L.\$'s	LEVEL		
LAUNDRY COST per CHANGE	SET	- 1.96	1	0	\$0	C/B		
TYVEK COVER-ALL w/HOOD & BOOTIES - DISPOSABLE	EA	4.46	3	0	\$0	C/B		
TYVEK COVER-ALL w/HOOD & BOOTIES - DISPOSABLE	EA	4.46	3	0	\$0	C/B		
GLOVE LINER - DISPOSABLE	PR	0.24	3	0	\$0	C/B		
GLOVE, LASTEX - DISPOSABLE	PR	0.26	3	0	\$0	C/B		
GLOVE, WORK - DISPOSABLE	PR	1.02	3	0	\$0	C/B		
APR CARTRIDGES - DISPOSABLE, CLEANING	PR	9.38	3	0	\$0	C/B		
SUB-TOTAL			I	0	\$0			
				\$/MD =	#DIV/0!			
PPE LEVEL mC								
DRESS w/ FACE SHIELD		\$'s		MAN DAYS	MAT'L.\$'s	LEVEL		
LAUNDRY COST per CHANGE	SET	1.96	1	0	. \$0	mC		
LT.WT. DISPOSABLE COVERALLS W/HOOD & BOOTIES	PR	4.46	3	0	\$0	mC		
GLOVE LINER - DISPOSABLE	PR	0.24	3	0	\$0	mC		
GLOVE, LASTEX - DISPOSABLE	PR	0.26	3	0	\$0	mC		
GLOVE, WORK - DISPOSABLE	PR	1.02	3	0	\$0	mC		

PPE LEVEL D

SUB-TOTAL

LAUNDRY COST per CHANGE 1.96

SUBCONTRACTOR REQUIRED PURCHASES	I naux I		QTY. PER	NO. OF			
	UNIT		WKŔ.	WORKERS	MAT'L. \$'s	LEVEL	
RUBBER BOOT COVERS-(1)PR.PER WORKER	PR	12.70	6	0	\$0	D/C/B	Т
APR w/HALF FACE MASK - (1) PER WORKER	EA	22.30	6	0	\$0	C	7
APR w/FULL FACE MASK - (1) PER WORKER	EA	174.00	6	0	\$0	C	7
SCBA	EA	1894.00	2	. 0	\$0	В	7
COOL VESTS	EA	137.50	6	0	\$0	C/B	\neg
THERMO STRIPS	EA	50.00	6	0	\$0	C/B	ヿ
SUB-TOTAL					\$0	C/B	٦

Total PPE Matl \$ and Laundry \$ \$0

(FORWARD TO PAGE 2 OF 2)

OTHER PPE's SUCH AS HARD HAT, SAFETY GLASSES/GOGGLES, STEEL TOED SAFETY SHOES, HEARING PROTECTION, ARE CONSIDERED THE SUBCONTRACTORS RESPONSIBILITY AND ARE COVERED IN HIS OVERHEAD EXPENSE. FD FERNALD SUPPLIED PPE's, SUCH AS COTTON COVERALLS, EXCHANGE OF RUBBER BOOT COVERS AND RESPIRATORS FOR CHANGEOUTS AND CLEANING OF SAME IS INCLUDED.

HEALTH PHYSICS

PROJECT:

Utility Redistribution - Lab Complex

ESTIMATE NO.: CLIENT:

C3-2001-05-005

WBS NO.:

1.1.B,E B

DOE

DATE: ESTIMATOR: 10-May-01 Ed Lumbert

LOCATION: TASK NO.:

FERNALD BLADS

BRUDZ

-MEDICAL MONITORING -

MEDICAL - PHYSICAL and IN-VIVO	MEDICAL - PHYSICAL and IN-VIVO MONITORING - LOST WORKER TIME for RAD II WORKERS ONLY										
DESC. PHYSICAL (3hrs), IN-VIVO (1hr)	ату	HRS	WKR	TOTAL Hours	AVG. Labor Rate	TOTAL LABOR \$					
BASELINE PHYSICALS	1	4	1	4	\$36.65	\$150					
ANNUAL PHYSICALS	0	4	1	0	\$36.65	\$0					
EXIT (TERMINATION) PHYSICALS (IN-VIVO)	1	1	1	1	\$36.65	\$40					
SUB-TOTAL						\$190					

RADIATION IN-VITRO SURVEILLANCE - LOST WORKER TIME for RAD II WORKERS ONLY							
DESC.	ату	HRS	WKR	TOTAL Hours	AVG. LABOR RATE	TOTAL LABOR \$	
BI-MONTHLY BIOASSAY	0	1	1	0	\$36.65	\$20	
							2
SUB-TOTAL						\$20	

	RANDOM DRU	G TESTING				
	TESTS	HRS	TOTAL HRS	AVG. RATE	LABOR \$'s	
	0	2	0	\$36.65	\$0	
NO. OF	TESTING	AVG. NO.	CHANCE/	NO. OF WKRS.	CHANCES	CONSTR
WKRS.	DAYS	OF TERMS	DAY	FOR THIS	DAY FOR TEST	WORKING
TESTED	PER YR.	PER DAY	FOR TEST	ESTIMATE	for this PROJECT	BAYS
2500	226	11	0.0044	1	0.0044	20

		LABOR \$'s		
		THRU		
		SAFETY	LABOR \$'s	
WORK DELAYS CAUSED BY MONITORING	1.0%	\$6,130	\$100	
·				
			LABOR \$'s	
WORK DELAYS CAUSED BY RAD CHECKING	1.0%	\$6,130	\$100	

	TOTAL	TOTAL	GRAND
	LABOR	MAT'L.	TOTAL
TOTAL HEALTH PHYSICS · FORWARD TO ESTIMATE SUMMARY SHEET	\$400	\$0	\$400

ACTIVITY DURATIONS

Fluor Fernald, Inc.

PROJECT: Utility Redistribution - Lab Complex

ESTIMATE NO.: C3-2001-05-005

CLIENT: DOE WBS NO.:

1.1.B.E B

DATE:

10-May-01

ESTIMATOR: Ed Lumbert LOCATION: FERNALD TASK NO.: -BLAB2

BFUDZ

ACTIVITY	EST. DATE	START DATE	MID POINT	COMPL. DATE	ACTIVITY	DURATION
CONSTRUCTION:	08-May-01	01-Sep-04	16-Sep-04	01-Oct-04	1.0	MONTHS
					0	MONTHS
TOTAL					1.0	MONTHS

DATE of EST. to MID-POINT CTIVITY DURATION 40.4 MONTHS 0 MONTHS

ACTIVITY	EST. DATE	START DATE	MID POINT	COMPL. DATE	ACTIVITY	DURATION
OPERATIONS					0	MONTHS

DATE of EST. to MID-POINT CTIVITY DURATION MONTHS

ACTIVITY DURATION IS USED IN DETERMINING NUMBER of WORKERS for CERCLA/SAT TRAINING HOURS and HEALTH PHYSICS COSTS.

			·	·	

PAGE 1 OF 2

COST IMPACT MATRIX SHEET

C3-2001-05-005 Utility Redistribution - Lab Complex DOE 1.1.8 ⊭ ⊝ Estimate No.: Project: Client: WBS:

Fluor Fernald, Inc.

Brud

Est. Chg. No.: BLAB2-Date: 10-May-01 Estimator: Ed Lumbert Location: FERNALD

	_	-		П	7	7	_		_	_	_	_		7	_	-
Cost Element			<u>ن</u>	High									%0	0\$		
Cost E			Base \$	Low									%0	0\$		
lement	Demobilization	EŞ	0\$	High		8%							8%	0,5		
Cost Element	Mobilization & Demobilization	\$ E	Base \$	γοη		-1%							-1%	0\$		
Cost Element	Mobilization & Demobilization	EQUIP. \$		High		8%							%8	#VALUE!		
Cost E	Mobilization &	EQU	Base \$	Low		-1%							.1%	#VALUE!		
Cost Element	Mobilization & Demobilization	1. \$	0\$	High		8%							%8	\$0		
Cost E	Mobilization &	MAT'L. \$	Base \$	Low		-1%							-1%	0\$		
lement	Demobilization	S/C \$	0\$	High									%0	\$0		
Cost Element	Mobilization & Demobilizatio	SIC	Base \$	MoJ									%0	\$0		
ement	Mobilization & Demobilization	LABOR \$	\$2,910	High	%8						2%		13%	\$3,288		
Cost Element	Mobilization &	LAB	Base \$	Low	.1%						.1%		-2%	\$2,852		
Base Estimate	Total	\$10,030	Cost	Drivers	Productivity	Unit Pricing	Contamination	Technology	Regulations/Laws	Quantity Variation	Project Definition	Other	Range - %	Range - \$	Distribution	Correlation Rank

	Coste	Cost Element	Cost Element	ement	Cost Element	ement	Cost Element	ement	Cost Element	ement	Cost E	Cost Element
					0		٥		0			
	TAB	LABOR \$	S/C	s/c s	MAT'L. \$	ا. ب. ه	EQUIP. \$	IP. \$	PPE \$	\$		
Cost	Base \$	0\$	Base \$	0\$	Base \$	0\$	Base \$		Base \$	0\$	Base \$	0\$
Drivers	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
Productivity	%6-	15%										
Unit Pricing					-1%	12%	-1%	10%	.4%	%8		
Contamination							-1%	10%				
Technology												
Regulations/Laws												
Quantity Variation					-1%	5%						
Project Definition	-1%	2%										
Other												
Range - %	-2%	20%	%0	%0	-5%	17%	-2%	20%	-1%	8%	%0	%0
Range - \$	0\$	80	0\$	0\$	0\$	0\$	#VALUE!	*VALUE!	0\$	05	0\$	0\$
Distribution												
Correlation Rank												

Analyst: Cilent:

COLUMNIC STATES OF THE STATES

COST IMPACT MATRIX SHEET

C3-2001-05-006 Utility Redistribution - Lab Complex DOE 1.1.B. \mathbb{Z}'

Estimata No.: Project: Client: WBS:

名ドu D み BLAB2-10-May-01 Ed Lumbert FERNALD

Est. Chg. No.: Date: Estimator: Location:

Fluor Fernald, Inc.

	_	_	10	Т		_	_	_	_	_	_	_	_	_	_	т-
Cost Element			8	High									%0	0\$		
Cost E			Base \$	Low									%0	0\$		
Cost Element	15A - Laboratory	PPE \$	0\$	High		8%	8%						16%	0\$		
Cost E	15A - La	ď	Base \$	Low		-1%	-1%						-2%	0\$		
Cost Element	15A - Laboratory	EQUIP. \$		High		10%							10%	#VALUE!		
Cost	15A - La	EOL	Base \$	Low		.1%							-1%	#VALUE!		
Cost Element	15A - Laboratory	MAT'L. \$	\$3,500	High		10%				5%			15%	\$4,025		
Cost E	15A - La	MAT	Base \$	Low		-1%				-1%			-2%	\$3,430		
Cost Element	15A - Laboratory	S/C \$	0\$	High				-					%0	0 \$		
Cost E	15A - La)/S	Base \$	Low									%0	80		
lement	15A - Laboratory	LABOR \$	\$3,620	High	15%		8%				2%		28%	\$4,634		
Cost Element	15A - Lai	LAB	Base \$	МОТ	.1%		-1%				71.		%E~	\$3,511		
			Cost	Drivers	Productivity	Unit Pricing	Contamination	Technology	Regulations/Laws	Quantity Variation	Project Definition	Other	Range - %	Range - \$	Distribution	Correlation Rank

	Cost E	Cost Element	Cost Element	lement	Cost E	Cost Element	Cost El	Cost Element	Cost E	Cost Element	Cost E	Cost Element
		0					0			_		
	LAB	LABOR \$	\$ DIS	\$:	MAT	MAT'L. \$	EQUIP. \$	P. \$	\$ 3dd	₩ ₩		
Cost	Base \$	0\$	Base \$		Base \$	0\$	Base \$		Base \$	0\$	Base \$	0\$
Drivers	Low	High	ΑOη	High	Low	High	Low	High	Low	High	Low	High
Productivity	.1%	12%										
Unit Pricing					*1-	%8	.1%	12%	*1-	%8		
Contamination	% ! -	10%										
Technology												
Regulations/Laws												
Quantity Variation	%1-	%9			-1%	2%	.1%	2%				
Project Definition												
Other												
Range - %	%€~	27%	%0	%0	-2%	43%	-2%	17%	-4%	%8	%0	%
Range - \$	0\$	0\$	0\$	0\$	0\$	0\$	#VALUE!	#VALUE!	0\$	0\$	0\$	0\$
Distribution												
Correlation Rank												
											The second secon	

Analyst:

Cilent:

COST ESTIMATE CHECKLIST - 5700.2D

ESTIMA	TOR:	Ed Lumbert		DATE	05/08/01
WBS #	1.1.B.EB	CHARGE #	BLAB2	ESTIMATE #	C3-2001-05-005
			^		

Brudz

The Cost Estimate Checklist is to be used as a guide to the content of the estimate files. After the preliminary estimate has been completed, the estimator will fill out the checklist form. The completed checklist form will be attached to the cost estimate prior to the peer or supervisor review and will remain with the estimate. A copy of the approved estimate and checklist will be filed in the Estimating Services' files.

Which one of the six cost estimating methods was used in the preparation of the cost estimate? Please check one.

Bottoms-Up Technique	\boxtimes	Cost Review & Update Technique	
Specific Analogy Technique		Trend Analysis Technique	
Parametric Technique		Expert Opinion Technique	

Identify the cost guideline(s) used when performing the estimate.

FERMCO	\boxtimes	Historical Data	\boxtimes
Means	\boxtimes	Richardson's	\boxtimes
Page		Estimator's Judgment	
Walker's		Hazardous Waste Cost Control	
МСА		Other:	

		YES	NO
1.	Has a copy of the cost estimate been filed with the official baseline project estimate and previous estimates?		
2.	Each cost estimate should include the basis for the estimate. Does the cost estimate basis describe the:		
	a. Purpose of the project?	X	
	b. General design criteria?	X	
	c. State of design at the time of the estimate?	X	
	d. Significant features and components?	X	
	e. Proposed methods of accomplishment?	X	
	f. Proposed construction schedule?	X	
	g. Research and development requirements?	X	
	h. Pertinent facts that may impact costs?	X	
	i. Type of estimate?	X	

COST ESTIMATE CHECKLIST - 5700.2D

	ESTIMATOR: Ed Lumbert DATE 05/08/0	1	
W	BS# 1.1.B, CHARGE# BLAB2 ESTIMATE# C3-2001-05	-005	
	5 BFUD2		
3.	Has the cost estimate been performed in constant-year dollars?	X	
4.	Was a check estimate requested by the internal or external client?		X
	If so, was the check estimate performed to validate the cost estimate?		
5.	Does the cost estimating method used reflect the project's phase of acquisition and degree of definition, the state-of-the-art of the project, the availability of the data bases, and the work breakdown structure?	Х	
6.	Was a standardized list of cost categories/codes used in the estimate?	X	
7.	Does the cost estimate show the basis for:	I	1
	a. Estimating quantities of materials not yet detailed in drawings?	Х	
	b. Wage rates?	X	
	c. Productivity factors?	X	
	d. Installation unit man-hours?	X	
8.	Was the cost estimate performed per the Project Control System Application Guide Procedure, PCS-002?	×	
9.	If a construction project estimate was performed, did the estimate include a contingency/risk analysis?	X	
10.	Has the cost estimate been reviewed by someone other than the estimator?	X	
	Were the comments recorded and signed by the reviewer and re-posited?	Х	
11.	Does the estimate include the following documentation?	1	1
	a. The technical description and the scope of the project being estimated.	X	
	b. The technical constraints, ground rules, and assumptions.	X	
	 A detailed traceable recording of how the estimate was performed and who performed it. 	Х	

d. A supporting schedule.

Fluor Fernald, Inc. C3-2001-05-005 Lab Complex Utility Redistribution DOE 1.1.BÆ

Estimate No.: Project: Client: WBS:

Est. Chg. No. B<u>LAB2</u> 名FUD 子 Date: 10-May-01 Estimator: Ed Lumbert Location: FERNALD

MATL. \$ EQUIP. \$ EQUIP. \$ EQUIP. \$	H
High Low High Low High Low High High Low High High Low High High Low High High Low High	obilization & Demobilizatiobilization & Demobilizatiobiliz ونومه المحالية
High Low High Low 8% -1% 8% -1% 8% 8% -1% 8% -1% 8% 8% -1% 8% -1% 8% \$0 \$0 \$0	\$2,910 Base \$ \$0 Base \$
8% -1% 8% -1% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	Low High
8% -1% 8% -1% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	
8% -1% 8% -1% 8% 0% 8% 50 \$0	
8% -1% 8% -1% 8% 0% 50 \$0 \$0	
8% -1% 8% -1% 8% 0% 8% 50 \$0	
8% -1% 8% -1% 8% 0% 50 \$0 \$0	
8% -1% 8% -1% 8% 0% 8% 50 \$0 80	•
8% -1% 8% -1% 8% 0% \$0	
\$0 #VALUE! #VALUE! \$0 \$0 \$0	
#VALUE! #VALUE! \$0 \$0	%0 %0
	0\$ 0\$

Base Low	0 LABOR \$ \$ \$0										
Base Low -1%	ABOR \$		_	0		0		0	_		
Base Low -1%	High	S/C	S/C \$.	MAT'L. \$.r. s	EQUIP. \$	P. \$	рР	PPE \$		
	High	Base \$	0\$	Base \$	0\$	Base \$		Base \$	0\$	Base \$	\$0
		Low	High	Low	High	Low	High	Low	High	Low	High
	15%										
Unit Pricing				-1%	12%	-1%	10%	-1%	%8		
Contamination						-1%	10%				
Technology											
Regulations/Laws					·						
Quantity Variation				-1%	2%						
Project Definition -1%	2%										
Other											
Range - % -2%	20%	%0	%0	-2%	17%	-2%	20%	-1%	%8	%0	%0
Range - \$ \$0	\$0	\$0	0\$	\$0	\$0	#VALUE!	#VALUE!	\$0	\$0	\$0	\$0
Distribution											
Correlation Rank											

Analyst: Client:

 \mathcal{BFUDP} Est. Chg. No. BLAB2 Date:

Ed Lumbert FERNALD Date: Estimator: Location:

Fluor Fernald, Inc.

C3-2001-05-005 Lab Complex Utility Redistribution DOE 1.1.B. \mathbf{E}' \mathcal{S}

Estimate No.: Project: Client: WBS:

	Cost E	Cost Element	Cost E	Cost Element	Cost Element	lement	Cost E	Cost Element	Cost E	Cost Element	Cost Element	ement
	15A - La	15A - Laboratory	15A - La	Laboratory	15A - Lal	15A - Laboratory	15A - La	15A - Laboratory	15A - La	15A - Laboratory		
	LAB	LABOR \$	S/C	S/C \$	MAT	MAT'L. \$	EQU	EQUIP. \$	ЬР	PPE \$		
Cost	Base \$	\$3,620	Base \$	0\$	Base \$	\$3,500	Base \$		Base \$	0\$	Base \$	\$0
Drivers	Low	High	Low	High	Low	High	γοη	High	Low	High	Low	High
Productivity	-1%	15%										
Unit Pricing					-1%	10%	-1%	10%	-1%	%8		
Contamination	-1%	%8							-1%	8%		
Technology												
Regulations/Laws												
Quantity Variation					-1%	2%						
Project Definition	-1%	2%										
Other												
Range - %	-3%	78%	%0	%0	-5%	15%	-1%	40%	-2%	46%	%0	%0
Range - \$	\$3,511	\$4,634	\$0	0\$	\$3,430	\$4,025	#VALUE!	#VALUE!	0\$	0\$	0\$	0\$
Distribution												ļ
Correlation Rank												

	1 200	Cost Element	Cost	Cost Element	Cost Element	ement	Cost E	Cost Element	Cost E	Cost Element	Cost Element	ement
L			0		0		0			0		
	LAB	LABOR \$	S/C	S/C \$.	MAT'L. \$	i. \$	EQU	EQUIP. \$	ЬP	PPE \$		
Cost	Base \$	0\$	Base \$		Base \$	0\$	Base \$		Base \$	0\$	Base \$	\$0
Drivers	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
Productivity	-1%	12%										
Unit Pricing					-1%	%8	-1%	12%	%1-	%8		
Contamination	-1%	10%										
Technology												
Regulations/Laws		-										
Quantity Variation	-1%	%9			-1%	2%	-1%	2%				
Project Definition												
Other												
Range - %	-3%	%17	%0	%0	%7-	13%	-2%	17%	%1-	%8	%0	%0
Range - \$	\$0	0\$	0\$	0\$	0\$	\$0	#VALUE!	#VALUE!	0\$	0\$	\$0	\$0
Distribution												
Correlation Rank												

Analyst:

Client:

COST IMPACT MATRIX SHEET

Fluor Fernald, Inc.

C3-2001-05-005 Lab Complex Utility Redistribution DOE 1.1.BF

Estimate No.: Project: Client: WBS:

Est. Chg. Nr BLAB2 SPUD2

	08-May-01	Ed Lumbert	FERNALD
Late Oilgo IV. Production	Date:	Estimator:	Location:

																-												/							10
Cost Element		9	High									%0	\$ 0					ement			\$0	High					/				%0	\$0			16/5
Cost E		Base \$	MO I									%0	\$ 0					Cost Element			Base \$	Low			7						%0	\$0		,	
ement	Demobilizatio	0\$	High		8%				٠			%8	\$0					ement		*	0\$	High	/	8%							8%	0\$			
Cost Element	obilization & I	Race C	MO I		-1%							-1%	0\$					Cost Element	o 	PPE \$	Base \$	Low		-1%							-1%	0\$			12
lement	obilization & Demobilization blization & Demobilization &		High		8%							%8	#VALUE!				/	ement		P. \$		High		10%	10%						20%	#VALUE!			Analyst: (
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Client:

PROJECTS CONTROLS ESTIMATING SERVICES

May 10, 2001

PROJECT DESCRIPTION: Miscellaneous Structures Utility Redistribution

WBS NUMBER: 1.1.B. ¥ 6

PROJECT ENGINEER: Harry Gear

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-012

BASIS OF ESTIMATE

SUPPORTING DOCUMENTATION:

Verbal Scope	P & ID's		Work Plan	
Drawings	Equipment List		Site Walk	\boxtimes
Sketches	Specifications		Eng. Mtg.	
Flow Diagrams	Written Scope	\boxtimes	Estimate.	

TYPE OF ESTIMATE:

Change Proposal		Government	
Plan/Feasibility		Conceptual	
Construction		Title I Design	
Budget	\boxtimes	Independent	

BASIS OF ESTIMATE:

Prepare a control estimate to determine the cost of Utility Redistribution for Miscellaneous Structures. Estimate to include manhours, labor, material, equipment, and subcontract costs for the following scope of work:

Install new lift station north of Taco trailers.

Install new lift station to collect sewerage from Silo Area and AWWT.

Refeed electrical power supply to main parking lot lighting.

Refeed electrical power to two (2) air compressors.

Refeed substation in Building 20A vie overhead 13.2kv pole line.

PROJECTS CONTROLS ESTIMATING SERVICES

May 10, 2001

PROJECT DESCRIPTION: Miscellaneous Structures Utility Redistribution

WBS NUMBER: 1.1.B, &B

PROJECT ENGINEER: Harry Gear

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-012

ESTIMATE ASSUMPTIONS

EXECUTION:
☐ This project is to be performed on a 40-hour week, 10 hours a day.
This project is to be performed on a 40-hour week, 8 hours a day.
Premium time allowed.
WAGE RATES:
Wage rates within this estimate are based on Project Labor Agreement rates, effective October 2000 and are considered FY01 dollars for estimating.
☑ Wage rates within this estimate are based on FF Support Contractor FSC 599 wage rates,
effective October 1999 have been escalated 3% and are considered FY01 dollars for estimating.
Wage rates within this estimate are based on FF FTE Planning Labor Rates FY01.
ENGINEERING:
N/A
Engineering dollars provided by the Project Engineer.
☐ Engineering dollars have been factored in at the standard 12% of the total direct and indirect
field costs as per request of Project Engineer.
CONSTRUCTION MANAGEMENT:
N/A N/A
Construction Management dollars provided by the Project Engineer.
Construction Management dollars have been factored in at the standard 30% of the total direct
and indirect field costs as per request of Project Engineer.
DDO IPOT MANA OFMENT
PROJECT MANAGEMENT:
N/A
Project Management dollars provided by the Project Engineer.
Project Management dollars have been factored in at the standard 30% of the total direct and
indirect field costs as per request of Project Engineer.
WASTE DOOGDAM MANACEMENT.
WASTE PROGRAM MANAGEMENT:
⊠ N/A
Waste Program Management dollars provided by the Project Engineer.

PROJECTS CONTROLS ESTIMATING SERVICES

May 10, 2001

PROJECT DESCRIPTION: Miscellaneous Structures Utility Redistribution

WBS NUMBER: 1.1.B.以ら

PROJECT ENGINEER: Harry Gear

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-012

PRODUCTIVITY:

A productivity factor has been developed and applied to the unit man-hours derived from MEANS, Richardson, NECA, and or any other published estimating source. See attachment APPENDIX "A" and APPENDIX "B".

ESCALATION:

Escalation costs are excluded from the target estimate. The escalation costs are calculated within the Micro-Frame computer system according to the plan for rebaselining.

UNIT RATES:

Unit man-hours, equipment and material dollars are based on Richardson, MEANS, NECA, and or other published rates.

G & A (HO EXPENSE):

G & A are excluded from the target estimate. The G & A cost are calculated within the Micro-Frame computer system according to the plan for rebaselining.

HEALTH PHYSICS:

See attached APPENDIX "C".

RISK BUDGET:

A cost element, based on a Risk Analysis calculated for this estimate to cover a statistical probability of a 50% chance of overrun/under run to the project. The target estimate is the sum of the base estimate and the risk budget.

CONTINGENCY:

An amount budgeted to cover costs that may result from incomplete design, unforeseen and unpredictable conditions, or uncertainties. Contingency is calculated as the delta between the 50% chance of overrun and the 5% chance of overrun, indicated on the risk analysis.

PROJECTS CONTROLS ESTIMATING SERVICES

May 10, 2001

PROJECT DESCRIPTION: Miscellaneous Structures Utility Redistribution

WBS NUMBER: 1.1.B. ₩ B

PROJECT ENGINEER: Harry Gear

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-012

ESTIMATE INCLUSIONS & EXCLUSIONS

INCLUSIONS:

- Premobilization & Mobilization.
- Demobilization.
- Labor hours.
- Material dollars.
- Equipment dollars.

EXCLUSIONS:

- Premium time.
- Permits and fees.
- FF G & A (Home Office Expense).
- Construction Management.
- Any second tier subcontract costs.
- Project Management dollars.
- Waste Management dollars.

DIRECT COST SUMMARY	VIO	UNIT		MAN-HOURS				OSST UNIT		LABOR	Sic	MAT'I	TASK NO.:	BMSG2 (3FL) D
			Unit	Total	Rate	Labor	SIC	Mat'i	Equip		2			
Misc Structures				8,4 88						\$159,340	\$10,000	\$122,000	\$8,840	\$300,180

Misc Structural Utility Redistribution C3-2001-05-012 DOE PROJECT: ESTIMATE NO.:

10-May-01

DATE:

Miles Structures) = 3	ESTIMATE NO.: 63-2001-05-012	77196179			=		1		,					DATE: 10·May·01 ESTIMATOR: Ed Lumbert	10.May.01 Ed Lumbert
Misc Structures pl /4 pt Intellegates pl /4 pt Intellegates Exception Library SC Dec. Lib	i တ				Ī	7	7	0	7		7	=			LOCATION: TASK NO.:	FERNALD BMSG2 RC1
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Figure 1 Figure 2 Figure 3 Figure 3 Figure 4	-				Unit	Total	Rate		L O	Mat'i	Equip					
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Sucrey, Layold School		Taco trailers.										-				
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96.00 \$1,400 \$1,920 \$1,920 \$1,400 \$1,400 \$1,400 \$1,400 \$1,400 \$1,000 \$1,	- 1 -	Disconnect Switch 480v 3nh	-	. 0			20.12		-	1 0		1070		\$44		\$305
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FDF \$1,030		comove remporary cumines	₹	=	000	င္ပ	38.12				by FDF	\$2,100				\$2,100
		complete Punch List Items	20	È	1.000	27	38.12				by FDF	\$1,030				\$1.030
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Misc Structural Utility Redistribution PROJECT:

C3-2001-05-012 ESTIMATE NO.: CLIENT:

WBS NO.:

1.1.BJBB

Fluor Fernald, Inc.

ESTIMATOR: Ed Lumbert

LOCATION: FERNALD

TASK NO.:

10-May-01

EMISES 8FLD3 \$476 \$4,390 \$3,192 15,929 14,640 \$4,985 \$74 \$346 \$518 \$147 \$305 \$668 \$1,920 \$1,530 \$2,088 \$6,584 \$8,664 \$2,100 \$2,100 TOTAL \$883 \$1,920 EOUIP \$4,150 \$11 \$85 \$100 \$43 \$250 \$10 \$1,125 \$15,000 \$272 \$130 \$2,660 \$800 \$2,400 MAT'L ટ્ડ \$1,730 \$2,051 \$835 \$63 \$261 \$418 \$185 \$929 \$14,640 \$104 \$261 \$418 \$1,400 \$5,784 \$6,264 \$2,100 \$3,630 \$2,100 LABOR 1.05 1.21 96.00 by FDF by FDF by FDF Egip 0.50 17.00 6.65 75.00 20.75 11.25 100.00 42.62 0.44 250.00 3.00 5.00 1.70 15,000.00 COST / UNIT ઝ Labor 33.93 33.93 38.12 38.12 38.12 38.12 38.12 38.12 38.12 38.12 38.12 33.93 33.93 33.34 38.12 26.40 38.12 Rate MAN-HOURS 219 164 55 431 42 55 Total 0.076 8.000 2.942 0.895 0.080 1.200 0.100 2.000 0.050 8.000 0.500 1.000 1.000 1.000 1.000 1.000 1.00 Ē ठ ea ુ ea ea S 늉 Ĕ ځ ַ 352 100 20 8 6 160 120 40 sewerage from Silo Area and AWWT. 7 pt 2/4 pt 2/4 mD|Service Entrance Cap, 1 1/2" di Install new lift station to collect mD Disconnect Switch 480v 3ph mD Remove Temporary Utilities Decontaminate Equipment mD Complete Punch List Items mD Conduit fittings, 1 1/2" dia mD Install Temporary Utilities mD Conduit, 1 1/2" dia, RGS mD Crane Rental w/Operator mD Concrete for Lift Station mD Allowance for Hardware mD 480v Overhead Cable Misc Structures mD Ground Wire, Copper mD |#1/0 AL Power cable Misc Structures Building 25C D&DmD Install 6" Sanitary mD Bedding Material mD Electrical Tie-In mD Plumbing Tie in mD Survey, Layout mD | Excavation mD | Lift Station mD Backfill t PE

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Misc Structural Utility Redistribution

1.1.BJE **NBS NO.:** CLIENT:

C3-2001-05-012 ESTIMATE NO.: PROJECT:

Fluor Fernald, Inc

ESTIMATOR: Ed Lumbert

LOCATION: FERNALD

10-May-01

BMSG2 BFUDD \$939 \$2,278 \$1,152 24,926 \$74,926 \$74 \$366 \$518 \$147 \$305 \$668 \$1,625 \$522 \$104 \$2,100 \$2,100 \$2,100 TASK NO.: \$20 \$800 \$20 EOUIP \$1,050 \$750 \$20,750 \$11 \$85 \$100 \$43 \$44 \$250 \$450 \$11 \$85 \$100 \$43 \$44 \$250 \$450 \$130 MAT'L \$10,000 SS \$261 \$418 \$104 \$261 \$418 \$1,175 \$522 \$929 \$1,228 \$402 \$4,176 \$104 \$2,100 \$2,100 \$2,100 \$1,400 \$63 1176 \$261 \$418 \$104 \$261 \$418 \$1,175 \$522 \$104 LABOR 0.40 80.00 by FDF by FDF by FDF 0.40 Equip 20.75 11.25 1.70 100.00 42.62 525.00 375.00 20.75 11.25 1.70 00.00 0.44 250.00 20.00 42.62 250.00 0.44 Mat COST / UNIT 10,000.00 သွ Labor 38.12 38.12 38.12 38.12 38.12 38.12 38.12 38.12 38.12 38.12 38.12 38.12 38.12 38.12 38.12 38.12 38.12 38.12 Rate MAN-HOURS 110 11 31 14 3 55 55 55 55 42 14 3 Ξ Total 11.765 1.200 0.100 8.000 2.000 0.050 8.000 1.000 1.000 000. 1.000 0.500 8.000 0.050 2.000 8.000 1.000 1.000 1.000 ij N ea 늉 ea בֿ 오누 늉 ea ¥ ¥ 눌 Refeed electrical power supply to the Main Refeed electical power toair compressors. 23 9 8 23 Parking Lot lights and Main Entrance pt 3/4 mD Guy Wire, Anchor, Hardware for mD Auger/Bucket Truck Rental w/O mD Service Entrance Cap, 1 1/2" di mD|Service Entrance Cap, 1 1/2" di mD Disconnect Switch 480v 3ph mD Remove Temporary Utilities mD Disconnect Switch 480v 3ph mD Complete Punch List Items C+ | Decontaminate Equipment mD Conduit fittings, 1 1/2" dia mD Install Temporary Utilities mD Conduit fittings, 1 1/2" dia mD | Paving Repair Allowance Conduit, 1 1/2" dia, RGS Conduit, 1 1/2" dia, RGS mD Allowance for Hardware mD Allowance for Hardware Road lighting system. mD 480v Overhead Cable 480v Overhead Cable mD Ground Wire, Copper Misc Structures mD #1/0 AL Power cable mD Ground Wire, Copper mD |#1/0 AL Power cable mD Install Power Poles Building 16B D&D-Building 93A D&DmD Electrical Tie-In Survey, Layout mD | Electrical Tie-In mD Lock and Tag mD Lock and Tag Om Om 표 Qu

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mD Remove Temporary Utilities

mD Install Temporary Utilities

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pt 3/4

Misc Structures

Misc Structural Utility Redistribution C3.2001.05.012 DOE 1.1.8.47 β PROJECT:

ESTIMATE NO.: CLIENT: WBS NO.:

DATE: 10-May-01 ESTIMATOR: Ed Lumbert

Misc Structures pt4/4 pt/limit ptv unit Area 4A Excavation-Refeed Substation in 20A via overhead 13.2kv pole line. 60 mh 1.000 Survey, Layout Install Power Poles Guy Wire, Anchor, Hardware for Overhead #2 ACSR "Sparrow" 5,000 lf 0.008 4 ea 4.000 Switch, Fuse Cut 3ph Overhead #2 ACSR "Sparrow" 5,000 lf 0.008 12.500 3ph Overhead Switch 1s.2 kv U/G Cable Termination 3 ea 1.739 1.739 U/G Cable Splice Allowance for Hardware 80 hr 1.000 3 ea 2.759 Allowance for Hardware 80 hr 1.000 3 ea 2.759 Survey, Layout 8 cy 2.000 2 con mh 1.000 Excavation, hand 1 cy 0.249	SE _	-				-				
Area 4A Excavation- Unit T. Refeed Substation in 20A via overhead 13.2kv pole line. 60 mh 1.000 Survey, Layout Install Power Poles 9 ea 11.765 Guy Wire, Anchor, Hardware for Overhead #2 ACSR "Sparrow" 5,000 16 0.008 Switch, Fuse Cut 3ph Overhead Switch 1st Nocethead Switch 2 ks U/G Cable Termination 3ph Overhead Switch 1st Nocethead Splice 3ph 1732 1 ks 40.000 13.2 kv U/G Cable Termination 2sh Nr 1.000 3 ea 2.759 Allowance for Hardware 1survey, Layout 2survey, Layout 2survey, Layout 2survey, Layout 2survey, Layout 3survey, Layout 2survey, Layout 3survey, Layout	L			COST / UNIT		LABOR	SIC	MAT	gillos	TOTAL
Area 4A Excavation- Refeed Substation in 20A via overhead 13.2kv pole line. 0 mh 1.000 Survey, Layout Refeed Witch, Fuse Cut 3xwitch, Fuse Cut 3xwitch, Fuse Cut 3xwitch, Fuse Cut 3xwitch, Fuse Cut 3xwitch 6xwitch 6x		Rate	Labor S/C	Mat'l	Equip		2	MINIF	liona	IOIAL
Survey, Layout 60 mh 1.000 Install Power Poles 9 ea 11.765 Guy Wire, Anchor, Hardware for Overhead #2 ACSR "Sparrow" Vision Switch, Fuse Cut 3 ea 12.500 3bh Overhead Switch 1 is 40.000 13.2 kv U/G Cable Termination Cable Splice 3 ea 1.739 U/G Cable Splice 3 ea 2.759 Allowance for Hardware 80 hr 1.000 Electrical Tie-In Survey, Layout 20 mh 1.000 Excavation, hand 8 cy 2.000 Bedding Material 1 cy 0.249										
Guy Wire, Anchor, Hardware for Overhead #2 ACSR "Sparrow" 5,000 11.765 Guy Wire, Anchor, Hardware for Overhead #2 ACSR "Sparrow" 5,000 1f 0.008 Switch, Fuse Cut 3 ea 12.500 3ph Overhead Switch 1 Is 40.000 13.2 kv U/G Cable Termination 3 ea 1.739 U/G Cable 300 If 0.080 600 Cable Splice 3 ea 2.759 Allowance for Hardware 80 hr 1.000 Electrical Tie-In 80 hr 1.000 Survey, Layout 20 mh 1.000 Excavation, hand 8 cy 2.000 Bedding Material 1 cy 0.249	85	33.93		0.50		\$2,788		\$30		\$2.818
Overhead #2 ACSR "Sparrow" 5,000 If 0.008 Switch, Fuse Cut	145	38.12		525.00		\$5,528		\$4,725		\$10,253
Switch, Fuse Cut 3 ea 12.500 3ph Overhead Switch 1 ls 40.000 13.2 kv U/G Cable Termination 3 ea 1.739 U/G Cable 300 lf 0.080 Cable Splice 3 ea 2.759 Allowance for Hardware 80 hr 1.000 Electrical Tie-In 80 hr 1.000 Survey, Layout 20 mh 1.000 Excavation, hand 8 cy 2.000 Bedding Material 1 cy 0.249	22	38.12	***************************************	375.00		\$802		\$1,500		\$2,305
3ph Overhead Switch 1 1s 40.000 13.2 kv U/G Cable Termination 3 ea 1.739 U/G Cable 300 If 0.080 Cable Splice 3 ea 2.759 Allowance for Hardware 80 hr 1.000 Electrical Tie-In 80 hr 1.000 Survey, Layout 20 mh 1.000 Excavation, hand 8 cy 2.000 Bedding Material 1 cy 0.249	51	38.12		80.08		\$1.058		\$3,000		\$5,088
13.2 kv U/G Cable 3 ea 1.739 U/G Cable 30 lf 0.080 Cable Splice 3 ea 2.759 Allowance for Hardware 80 hr 1.000 Electrical Tie-In 80 hr 1.000 Survey, Layout 20 mh 1.000 Excavation, hand 8 cy 2.000 Bedding Material 1 cy 0.249	22	38.12		4.000.00		\$2,088		\$4,400		\$4,358 \$6,000
U/G Cable 300 If 0.080 Cable Splice 3 ea 2.759 Allowance for Hardware 80 hr 1.000 1 Electrical Tie-In 80 hr 1.000 1 Survey, Layout 20 mh 1.000 1 Excavation, hand 8 cy 2.000 Bedding Material 1 cy 0.249	7	38.12		200.00		\$272		\$1,500		\$0,000
Cable Splice 3 ea 2.759 Allowance for Hardware 80 hr 1.000 Electrical Tie-In 80 hr 1.000 Survey, Layout 20 mh 1.000 Excavation, hand 8 cy 2.000 Bedding Material 1 cy 0.249	33	38.12		2.00		\$1,253		\$600		\$1.853
Allowance for Hardware 80 hr 1.000 Electrical Tie-In 80 hr 1.000 Survey, Layout 20 mh 1.000 Excavation, hand 8 cy 2.000 Bedding Material 1 cy 0.249	=	38.12		00.009		\$432		\$1.800		\$2,737
Electrical Lie-In 80 hr 1.000 Survey, Layout 20 mh 1.000 Excavation, hand 8 cy 2.000 Bedding Material 1 cy 0.249	110	38.12	****	20.00		\$4,176		\$4,000		\$8,176
Excavation, hand 8 cy 2.000 Bedding Material 1 cy 0.249	110	38.12	· · · · · · · · · · · · · · · · · · ·			\$4,176				\$4,176
Excavation, hand 8 cy 2.000 Bedding Material 1 cy 0.249	27	33.93		0.50		\$929		\$10		\$939
Bedding Material 1 cy 0.249	22	33.93			1.21	\$744			\$10	\$754
	0	33.93		17.00	1.21	\$12		\$17	\$1	\$30
Conduit, 1 1/2" dia, RGS 50 If 0.100	7	38.12		1.70	0.40	\$261		\$85	\$20	\$366
Conduit fittings, 1 1/2" dia 1 ls 8.000	=	38.12		100.00		\$418		\$100		\$518
Backfill	9	33.93			0.72	\$333			\$6	\$339
-					80.00				\$3 200	002 58
mD Lock and Tag 2 hr 1.000 3	8	38.12				\$104			201,00	43,200
mD Install Temporary Utilities 40 hr 1.000 55	22				by FDF	\$2,100				\$104
mD Remove Temporary Utilities 40 hr 1,000 55	22	38.12			by FDF	\$2,100				\$2,100
40 hr 1 000	22	38 12			by EDE	\$2,100				\$2,100
40 hr 0.500	42	23.34		c	- - - - - - - - - - - - - - - - - - -	42,100				\$2,100
	1	55.54		3.00		\$1,400		\$130		\$1,530

								-		
								-		
Misc Structures pt4/4	488	-				6450 240	40000	000	070	
aseline 2001 pbs-02112 misc structurestc3 200105012 misc	ruct sub support 20	BURPURT	ONTRACTOR - SE	THE FAIR THE T		010,000	410,000	_	\$0,040	\$300,180

			·	

SUPPORT CONTRACTOR ESTIMATE SUMMARY SHEET

PROJECT:

Misc Structural Utility Redistribution

ESTIMATE NO.: C3-2001-05-012

Fluor Fernald Inc

DATE:

10-May-01

ESTIMATOR:

Ed Lumbert

Brudz

CLIENT: DOE FIUO WBS NO.: 1.1.B.Jr B	r rer	naic	i, Inc	•		LOCATION: TASK NO:	FERNALD BMSC2
DESCRIPTION	M/H	AVG.	SPT.CONT.		FERN <i>A</i>	LD	
		RATE	LABOR \$	S/C / OTHER	MAT'L \$	EQUIP \$	TOTAL \$
Misc Structures	4,488		\$159,340	\$10,000	\$122,000	\$8,840	\$140,840
SUPPORT CONT. / FF D. F. COST TOTAL	4,488	\$35.51	\$159,340	\$10,000	\$122,000	\$8,840	\$140,840
SUPERVISION	853		\$43,100				
SMALL TOOLS & CONSUMABLES					\$17,500		\$17,500
MISC. EQUIP.RENTAL	}						
JOB CLEAN-UP	203		\$7,200		\$2,400		\$2,400
SAFETY	87		\$3,100		\$1,700		\$1,700
HEALTH PHYSICS S/C	169	l	\$6,000				
JOB SPECIFIC TRAINING							
SUPPORT CONT. INDIRECT FIELD COST TOTAL	1,312		\$59,400				
SUPPORT CONT. TOTAL BILLABLE COSTS	5,799	\$37.72	\$218,740				
TEMPORARY FACILITIES							
TEMPORARY UTILITY HOOK-UP		1					
FD FERNALD SALES TAX					\$8,600	\$500	\$9,100
FF INDIRECT FIELD COSTS TOTAL					\$30,200	\$500	\$30,700
FF DIRECT & INDIRECT FIELD COSTS TOTAL				\$10,000	\$152,200	\$9,340	\$171,540
FF and SUPT.CONT. DIRECT & INDIRECT FIELD COST T	OTAL		\$218,740	\$10,000	\$152,200	\$9,340	\$390,280
SUB-TOTAL (BASE ESTIMATE)							\$390,280
TARGET ESTIMATE (F	Y 01 DOL	LARS)					\$390,280
ESTIMATE PERFORMED BY		•				- L	

SUPPORT CONTRACTOR ESTIMATE SUMMARY SHEET

PROJECT:

Misc Structural Utility Redistribution

ESTIMATE CLIENT:

ESTIMATE NO.: C3-2001-05-012

DOE

FACTORS

DATE:

10-May-01

ESTIMATOR: Ed Lumbert LOCATION: FERNALD

TACK NO.

PRINALD

WBS NO.: 1.1.B.がり						TASK NO.:	BMSCZ BFU
	SUPT.CONT.	FD FERNALI					PROJECT
	LABOR \$	LABOR \$	S/C \$	MAT'L.\$	EQUIP. \$	PPE \$	TOTAL \$
DFC DOLLARS	\$159,340		\$10,000	\$122,000	\$8,840		\$300,180
IFC COST FACTOR	1.3728	1.0000	1	1.1770	1.0000		
SALES TAX COST FACTOR	-	-	-	1.0600	1.0600	1.0600	
BOND + OVERHEAD & PROFIT COST FACTOR	N/A	N/A	N/A	N/A	N/A	N/A	
DIRECT FIELD COST FACTOR =	1,3728	1.0000	1.0000	1 2477	1 0000	4.0000	
DIRECT FIELD COST FACTOR =	1.3720	1.0000	1.0000	1.2477	1.0600	1.0600	
DIRECT BASE ESTIMATE \$'s	\$218,740		10000	\$152,220	\$9,370		\$390,330
RISK BUDGET FACTOR	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
DIRECT TARGET ESTIMATE FACTOR	1.3728	1.0000	1	1.2477	1.0600	1.0600	
				1.2477	1.0000	1.0000	
DIRECT TARGET ESTIMATE (FYOO DOLLARS)	\$218,740		10000	\$152,220	\$9,370		\$390,330
							1

NOTE:

If there are no equipment rental costs in the "Directs" (0 \$'s in 120) and the default allowance of \$3.50 per MH has been used in the "indirects",
input the indirect Equip. \$'s in H62 and put a dash in H63. This will treat the Equip. \$'s as direct cost and apply the sales tax factor.
On page 3 below, insert the equipment \$'s in any pay items that apply.

PAY ITEM NO. DES	E .B.J B ESCRIPTION		Field Cost C T O R S FF LABOR \$	\$/C \$ 10000 \$10,000	122,000 \$152,220	8,840 \$9,370	ESTIMATOR: LOCATION: TASK NO.: PPE \$	FERNALD BMSC2 PROJECT TOTAL \$ \$390,330
PAY ITEM NO. DES	I.B.JF B ESCRIPTION	SUPPORT CONT. LABOR \$ 159340	FF	10000	122,000 \$152,220	8,840 \$9,370	TASK NO.:	PROJECT TOTAL \$
PAY ITEM NO. DES	ESCRIPTION	CONT. LABOR \$		10000	122,000 \$152,220	8,840 \$9,370		PROJECT TOTAL \$
PPE		LABOR \$		10000	122,000 \$152,220	8,840 \$9,370	PPE \$	TOTAL \$
PPE		159340		10000	122,000 \$152,220	8,840 \$9,370		
					\$152,220	\$9,370		\$390,330
Misc S	sc Structures				\$152,220	\$9,370		\$390,330
Misc S	sc Structures				\$152,220	\$9,370		\$390,330
		\$218,740		\$10,000 P				\$390,330
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IB-TOTAL - SUPPORT (\$218,740						\$218,740
JB-TOTAL - FF	T CONTRACTOR			\$10,000	\$152,220	\$9,370		\$171,590

TOTAL DIRECT FIELD COSTS w/FACTORS

NOTE: The above costs exclude any FD Fernald support costs that may appear on page 1 & 2, such as Waste Disposition, Engineering, Project Management, or Construction Management.

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					APPENDIX	X "A"						
PROJECT: Misc Structural Utili ESTIMATE NO C3-2001-05-012	3	ity Redistribution			SITE SPECIFIC	CIFIC					DATE:	10-May-01
CLIENT: DOE WBS NO.: 1.1.BJF.				EFFICIENCY	EFFICIENCY/MULTIPLIER ANALYSIS	ANALYSIS					ESIIMAIUR: Edlumbert LOCATION: FERNALD TASK NO.: 8M362	Ed Lumbert FERNALD BM962 R
PERCENT OF INFLUEN	NFLUENCE ON	CE ON CHART MANHOURS	OURS								Ш	7
	40%	9 20%	%09	70%	%08	%06	100%	105%	110%	% OF INFLUENCE	WT'D VALUE	PROD. RESULT
CRAFT SKILL (NOTE 1)	POOR			FAIR			STD	V.G00D	EXCELLENT	100.0%	12.0%	0.12
CRAFT AVAIL.(NOTE 1)		POOR		FAIR			STD			100.0%	8.0%	0.08
CLIMATE (NOTE 2)	SEVERE	ICE/SNOW			RAIN		+40 T0 +85			80.0%	20.0%	0.18
PLANT ELEVATION		0VER 10,000FT			5,000° TO 10,000 FT		UNDER 5,000 FT			100.0%	5.0%	0.05
WORK SPACE		_		200 SF	250 SF	300 SF	350 SF			100 001	10.04	c
	< MULTIP	IULTIPLE SHIFTS.			; }	5				9.00	R 9:00	3
WORK WEEK							4-10s / 5-8s			100.0%	15.0%	0.15
50 HOUR WORK WEEK	IIII MULTIPLE	MINITALINIANIANIANIANIANIANIANIANIANIANIANIANIA	THE THE PROPERTY OF THE PARTY O	OVER 7 WEEKS	3 TO 7 Weeks	UP TO 3 WEEKS						
60 HOUR WORK WEEK		mananaman mananaman mananaman mananama	OVER 7 WEEKS	3 TO 7 Weeks	UP TO 3 WEEKS							
SHIFTWORK 2nd shift 3rd shift			JRD SHIFT		2ND SHIFT		OR ONE SHIFT ONLY			100.0%	3.0%	0.03
PROJECT SIZE					400M MH AND UP	300M TO 400M MH	200M TO 300M MH	200M MH OR LESS		105.0%	4.0%	0.042
PLANT TYPE				REVAMP ONLY	REVAMP & NEW	NEW IN Exist PLT	GRASS ROOTS			80.0%	8.0%	0.064
AREA/UNION INFLUENCE	STRONG		MILD		SOME		NONE			70.0%	10.0%	0.07
NOTES	SIDERED										100.0%	93.6%
2. FOR EXTERIOR WORK ONLY				-	EFFICIENCY	(AS A % OFF	(AS A % OFF CHART MANHOURS)	JURS)				93.6%
					MULTIPLIER.	(TO BE APPLI	MULTIPLIER · (TO BE APPLIED TO CHART M.H.'S TO OBTAIN SITE M.H.'S)	1.H.'S TO 0BT	AIN SITE M.H.	S)		1.07

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EFFICIENCY FACTORS

PROJECT Misc Structural Utility Redistribution

ESTIMATE C3-2001-05-012

CLIENT: DOE WBS NO.: 1.1.B.

DATE: 10-May-01
ESTIMATOI Ed Lumbert
LOCATION: FERNALD

TASK NO.: BMSC2

BFUDZ

Fluor Fernald, Inc.

EXAMPLE:

STANDARD CHART MANHOURS = NET 100 EFFICIENCY FACTORS: SITE SPECIFIC (SEE APPENDIX A 7.0 S/T = BASE UNIT MANHOURS OVERTIME PRODUCTIVITY FACTOF 0.00% (SEE DETAIL WORKSHEET BACK-UP) 107 TASK SPECIFIC (confined space, 0.0% 0 high elevation, congestion, etc.) 107

* PPE SPECIFIC (Based on current data and estimating knowledge)

				PPE L	EVEL							
		D	Mod.	'D'	Mod	. "C"	(;	С	+		В
PRODUCTIV	ITY HOURS	MH's	MULTIPLIER	MH's	MULTIPLIER	MH's	MULTIPLIER	MH's	MULTIPLIER	MH's	MULTIPLIER	MH's
(ASA%)/ADDMH's	4.00%	4	28.00%	30	66.00%	71	74.00%	79	96.00%	103	110.00%	118
LTIPLIER)/TOTAL HRS	1.04	111.3	1.28	137	1.66	177.6	1.74	186.2	1.96	209.7	2.10	224.7
TAL MULT. * SITE PRO	1.1128		1.3696		1.7762		1.8618		2.0972		2.0972	
in a (SEE FD FERN Total hours days = (PPE	contaminat ALD ESTIMAT worked in a ManDays	t Productivity ted area if the TING SERVICES a specific PPE to determine EALTH PHYS	Safety Lev REFERENCE level divid material co	el cannot b MANUAL IM	e determin -6006 8.10) 							
	11.0	Man Days	14.0	Man Days	18.0	Man Days	19.0	Man Days	21.0	Man Days	22.0	Man Days

THESE EFFICIENCY FACTORS WERE APPLIED INDIVIDUALLY THROUGHOUT THE ESTIMATE AT A TASK SPECIFIC LEVEL, TO OBTAIN A MORE ACCURATE ACCOUNT OF OVERALL EFFICIENCY IMPACT DUE TO PPE REQUIREMENTS IN HANDLING CONTAMINATED AND HAZARDOUS WASTE.

APPENDIX "B"

EFFICIENCY FACTORS

PROJECT Misc Structural Utility Redistribution

ESTIMATE C3-2001-05-012

CLIENT: DOE WBS NO.: 1.1.8,6 (2) DATE: 10-May-01 ESTIMATOLEd Lumbert LOCATION: FERNALD TASK NO.: -BMSC2

BRUD3

PPE MULTIPLIER DEVELOPEMENT

	D	mD	mC	С	C+	В
CREW SIZE & MAKE-I STANDARD	7	7	7	7	7	7
WORKER-BUDDY	0	0	0	0	o	0
SUPPORT TEAM	0	0	0	l o	o	0
TOTAL CREW	7	7	7	7	7	7
CREW SIZE RATIO	1.00	1.00	1.00	1.00	1.00	1.00
AVAILABLE WORK TIME FACTOR	0.96	0.78	0.70	0.70	0.68	0.68
PPE LABOR PRODUCTIVITY FACTOR	1	1	0.86	0.82	0.75	0.70
NET PRODUCTIVITY RATIO	0.96	0.78	0.602	0.574	0.51	0.476
NET PRODUCTIVITY MULTIPLIER	1.04	1.28	1.66	1.74	1.96	2.10

These factors were based on Tables 6.1 and 6.2, Moderate Work Efforts, 66F to 85F temperature of 'Hazardous Waste Cost Control' by R.A.Selg. Modifications were made to reflect a 10 hour work day and no buddy system or support team for levels D, mC and C. The worker-buddy and support team members, if required, may be covered under Construction Mgmt. (Rad Techs).

AVAILABLE WORK TIME FACTOR	D	mD	mC	С	C+	В
TOTAL WORK MINUTI 4 - 10's	600	600	600	600	600	600
ADDITN'L.SITE SAFETY MEETINGS QUAI	NTITY 1	1	1	1	1	1
MINU	JTES 25	25	25	25	25	25
TOTAL	25	25	25	25	25	25
PPE DON & DOFFING QUAI	O YTITY	0	3	3	3	3
(ADJUST LEVEL D per WORK PLAN MINU	JTES 0	0	15	15	20	20
TOTAL		0	45	45	60	60
WORK BREAKS QUAR	NTITY N/A	2	2	2	2	2
(ADJUST LEVEL D per WORK PLAN MINU	JTES N/A	15	15	15	15	15
TOTAL	ł	30	30	30	30	30
MOBILIZATION - ROUND TRIPS QUAR	VTITY NVA	4	4	4	4	4
(ADJUST LEVEL D per WORK PLAN MINU	ITES N/A	15	15	15	15	15
TOTAL	Ì	60	60	60	60	60
COOLDOWNS PER DAY QUAN	ITITY N/A	4	4	4	4	4
** (4 OUT OF 12 MON) 33.33% MINL	ITES N/A	15	15	15	15	15
TOTAL		20	20	20	20	20
AIR TANK REPLACEMENT QUAN	ITITY N/A	N/A	N/A	N/A	N/A	N/A
MINU	TES N/A	N/A	N/A	N/A	N/A	N/A
TOTAL						
AVAILABLE WORK TIME	575	465	420	420	405	405
AVAILABLE WORK TIME FACTOR	0.96	0.78	0.7	0.7	0.68	0.68

NOTE: Adjust Work Minutes per Day' basis to: 5 - 8's, or leave as 4 - 10's. Any other circumstances, over-ride the minutes per day.

^{**} Assumption based on work performed in May, June, July & August, pro-rating cost over one year. Adjust % to individual circumstances.

HEALTH PHYSICS

PROJECT: Misc Structural Utility Redistribution

ESTIMATE NO C3-2001-05-012

CLIENT:

DOE

WBS NO.: 1.1.B. & B

Fluor Fernald, Inc.

DATE:

10-May-01

ESTIMATOR: Ed Lumbert LOCATION: FERNALD

LOCATION: FERNALD TASK NO.: BMSC2

BFUDZ

PPE's · PERSONAL PROTECTIVE EQUIPMENT

		UNIT	* NO.	OF CHANGE OUT	S PER WORKER	PER DAY	
DESCRIPTION	UNIT	COST	Man Da	ys (TOTAL HOUR	S worked in PPE	's Div. by WORK	HOURS/DAY)
PPE LEVEL C / C+		\$'s	*	MAN DAYS	MAT'L.\$'s	LEVEL	
LAUNDRY COST per CHANGE	SET	1.96	1	0	\$0	C/B	
TYVEK COVER-ALL w/HOOD & BOOTIES - DIS	EA	4.46	3	0	\$0	C/B	1
TYVEK COVER-ALL w/HOOD & BOOTIES - DIS	EA	4.46	3	0	\$0	C/B	1
GLOVE LINER - DISPOSABLE	PR	0.24	3	0	\$0	C/B	1
GLOVE, LASTEX - DISPOSABLE	PR	0.26	3	0	\$0	C/B	1
GLOVE, WORK - DISPOSABLE	PR	1.02	3	0	\$0	C/B	1
APR CARTRIDGES - DISPOSABLE, CLEANING	PR	9.38	3	0	\$0	C/B	1
SUB-TOTAL				0	\$0		1
				\$/MD =	#DIV/0!		3

PPE LEVEL mC

RESS w/ FACE SHIELD		\$'s		MAN DAYS	MAT'L.\$'s	LEVEL
LAUNDRY COST per CHANGE	SET	1.96	1	0	\$0	mC
LT.WT. DISPOSABLE COVERALLS W/HOOD &	PR	4.46	3	0	\$0	mC
GLOVE LINER - DISPOSABLE	PR	0.24	3	0	\$0	mC
GLOVE, LASTEX - DISPOSABLE	PR	0.26	3	0	\$0	mC
GLOVE, WORK - DISPOSABLE	PR	1.02	3	0	\$0	mC
SUB-TOTAL				0	\$0	mC
				\$/MD =	#DIV/0!	

PPF I FVFI D

SUB-TOTAL

PPE LEVEL D						
LAUNDRY COST per CHANGE	SET	1.96	1	0	\$0	D

			UIY. PER	NO. OF			
SUBCONTRACTOR REQUIRED PURCHASES	UNIT		WKR.	WORKERS	MAT'L. \$'s	LEVEL	T
RUBBER BOOT COVERS-(1)PR.PER WORKER	PR	12.70	6	0	\$0	DICIB	Т
APR w/HALF FACE MASK - (1) PER WORKER	EA	22.30	6	0	\$0	С	7
APR w/FULL FACE MASK - (1) PER WORKER	EA	174.00	6	0	\$0	С	7
SCBA	EA	1894.00	2	0	\$0	В	٦
COOL VESTS	EA	137.50	6	0	\$0	C/B	7
THERMO STRIPS	EA	50.00	6	0	\$0	C/B	7

Total PPE Mati \$ and Laundry \$ \$0

(FORWARD TO PAGE 2 OF 2)

\$0

C/B

OTHER PPE'S SUCH AS HARD HAT, SAFETY GLASSES/GOGGLES, STEEL TOED SAFETY SHOES, HEARING PROTECTION, ARE CONSIDERED THE SUBCONTRACTORS RESPONSIBILITY AND ARE COVERED IN HIS OVERHEAD EXPENSE. FD FERNALD SUPPLIED PPE'S, SUCH AS COTTON COVERALLS, EXCHANGE OF RUBBER BOOT COVERS AND RESPIRATORS FOR CHANGEOUTS AND CLEANING OF SAME IS INCLUDED.

HEALTH PHYSICS

PROJECT: Misc Structural Utility Redistribution

ESTIMATE NO C3-2001-05-012

CLIENT: DOE

WBS NO.: 1.1.BAT 3

DATE:

10-May-01

ESTIMATOR: Ed Lumbert LOCATION: FERNALD

LOCATION: FERNALD TASK NO.: BMSC2

BFUDD

-MEDICAL MONITORING -

DESC. PHYSICAL (3hrs), IN-VIVO (1hr)	ату	HRS	WKR	TOTAL Hours	AVG. Labor Rate	TOTAL LABOR \$
BASELINE PHYSICALS	1	4	. 3	12	\$35.51	\$430
ANNUAL PHYSICALS	1	4	. 3	12	\$35.51	\$430
EXIT (TERMINATION) PHYSICALS (IN-VIVO)	1	1	3	3	\$35.51	\$110
SUB-TOTAL						\$970

DESC.	ату	HRS	WKR	TOTAL HOURS	AVG. LABOR RATE	TOTAL LABOR \$	
BI-MONTHLY BIOASSAY	6	1	3	18	\$35.51	\$640	
SUB-TOTAL						\$640	

RA	NDOM DRU	JG TESTI	NG			
	TESTS	HRS	TOTAL HRS	AVG. RATE	LABOR \$'s	
	3	2	6	\$35.51	\$200	
NO. OF	TESTING	AVG. BO.	CHANCE	NO. OF WKRS.	CHANCES	CONSTR
WKRS.	DAYS	OF TESTS	DAY	FOR THIS	/DAY FOR TEST	WORKING
TESTED	PER YR.	PER DAY	FOR TEST	ESTIMATE	for this PROJECT	DAYS
2500	226	11	0.0044	3	0.0132	227

	· · · · · · · · · · · · · · · · · · ·	_	
	LABOR \$'s		
	THRU		
	SAFETY	LABOR \$'s	
WORK DELAYS CAUSED BY MONITORING 1.0%	\$212,740	\$2,100	
		LABOR \$'s	
WORK DELAYS CAUSED BY RAD CHECKING 1.0%	\$212,740	\$2,100	
	TOTAL	TOTAL	GRAND

	TOTAL	TOTAL	GRAND
	LABOR	MAT'L.	TOTAL
TOTAL HEALTH PHYSICS - FORWARD TO ESTIMATE SUMMARY SHEET	\$6,000	\$0	\$6,000

ACTIVITY DURATIONS

PROJECT: Misc Structural Utility Redistribution

ESTIMATE N C3-2001-05-012

CLIENT: DOE WBS NO.: 1.1.8, & B Fluor Fernald, Inc.

10-May-01 ESTIMATOR: Ed Lumbert LOCATION: FERNALD TASK NO.: BMSG2-

BFUDD

ACTIVITY	EST. Date	START DATE	MID POINT	COMPL. Date	ACTIVITY	DURATION
CONSTRUCTION:	08-May-01	01-0ct-02	01-Apr-03	01-Oct-03	12.0	MONTHS
					0	MONTHS
TOTAL				1	12.0	MONTHS

DATE of EST. to MID-POINT CTIVITY DURATION 22.8 MONTHS 0 MONTHS

ACTIVITY	EST. Date	START Date	MID Point	COMPL. Date	ACTIVITY	DURATION
OPERATIONS					0	MONTHS

DATE of EST. to MID-POINT CTIVITY DURATION 0 MONTHS

ACTIVITY DURATION IS USED IN DETERMINING NUMBER of WORKERS for CERCLA/SAT TRAINING HOURS and HEALTH PHYSICS COSTS.

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COST IMPACT MATRIX SHEET

Fluor Fernald, Inc.

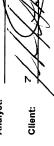
Estimate No.: Project: Client: WBS:

C3-2001-05-012 Misc Structural Utility Redistribution DOE 1.1.B- \mathcal{A}

Est. Chg. No.: BMBC2 &FUD & Date: 10-May-01 Estimator: Ed Lumbert Location: FERNALD

												Correlation Rank
										Ŋ		Distribution
0\$	0\$	0\$	\$0	\$10,120	\$9,276	\$164,398	\$150,698	\$11,300	\$9,800	\$247,176	\$214,365	Range - \$
%0	%0	8%	.1%	%8	-1%	8%	-1%	13%	-2%		-2%	Range - %
												Other
								%9	-1%	2%	.1%	Project Definition
												Quantity Variation
												Regulations/Laws
												Technology
												Contamination
		8%	-1%	%8	.1%	8%	.1%					Unit Pricing
								%8	-1%	8%	-1%	Productivity
Hiah	Low	High	Low	High	Low	High	Low	High	Low	High	Low	Drivers
0\$	Base \$	\$0	Base \$	\$9,370	Base \$	\$152,220	Base \$	\$10,000	Base \$	\$218,740	Base \$	Cost
		PPE \$	dd	EQUIP. \$	EQU	MAT'L. \$	MAT	S/C \$)S	LABOR \$	LAB	\$390,330
		Misc Structures	Misc St	Misc Structures	Misc St	Misc Structures	Misc Str	Misc Structures	Misc St	Misc Structures	Misc St	Total
ement	Cost Element	Cost Flomant	Cost E	Cost Flement	Cost F	Cost Element	Cost E	Cost Element	Cost	Cost Element	Cost	Base Estimate

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	Correlation Rank												



Analyst:

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PROJECTS CONTROLS ESTIMATING SERVICES

May 10, 2001

PROJECT DESCRIPTION: Hut 6 and Hut 4 Utility Redistribution

WBS NUMBER: 1.1.B.B

PROJECT ENGINEER: Tom Jesse

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-017

BASIS OF ESTIMATE

SUPPORTING DOCUMENTATION:

Verbal Scope	P & ID's		Work Plan	
Drawings	Equipment List		Site Walk	\boxtimes
Sketches	Specifications		Eng. Mtg.	
Flow Diagrams	Written Scope	\boxtimes	Estimate	

TYPE OF ESTIMATE:

Change Proposal		Government	
Plan/Feasibility		Conceptual	
Construction		Title I Design	
Budget	\square	Independent	

BASIS OF ESTIMATE:

Prepare a control estimate to determine the cost of Utility Redistribution for 53A – Health & Safety. Estimate to include manhours, labor, material, equipment, and subcontract costs for the following scope of work:

Reroute power to Hut #6 and Hut#4 (East Trailer Park).

PROJECTS CONTROLS ESTIMATING SERVICES

May 10, 2001

PROJECT DESCRIPTION: Hut 6 and Hut 4 Utility Redistribution

WBS NUMBER: 1.1.B.B

PROJECT ENGINEER: Tom Jesse

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-017

ESTIMATE ASSUMPTIONS

EXECUTION:
This project is to be performed on a 40-hour week, 10 hours a day.
This project is to be performed on a 40-hour week, 8 hours a day.
Premium time allowed.
WAGE RATES:
Wage rates within this estimate are based on Project Labor Agreement rates, effective October
2000 and are considered FY01 dollars for estimating.
effective October 1999 have been escalated 3% and are considered FY01 dollars for estimating.
ENGINEERING:
⊠ N/A
Engineering dollars provided by the Project Engineer.
Engineering dollars have been factored in at the standard 12% of the total direct and indirect
field costs as per request of Project Engineer.
CONSTRUCTION MANAGEMENT:
CONSTRUCTION MANAGEMENT:
N/A ☐ Construction Management dollars provided by the Project Engineer.
⊠ N/A
N/A ☐ Construction Management dollars provided by the Project Engineer.
 N/A ☐ Construction Management dollars provided by the Project Engineer. ☐ Construction Management dollars have been factored in at the standard 30% of the total direct
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PROJECTS CONTROLS ESTIMATING SERVICES

May 10, 2001

PROJECT DESCRIPTION: Hut 6 and Hut 4 Utility Redistribution

WBS NUMBER: 1.1.B.B

PROJECT ENGINEER: Tom Jesse

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-017

PRODUCTIVITY:

A productivity factor has been developed and applied to the unit man-hours derived from MEANS, Richardson, NECA, and or any other published estimating source. See attachment APPENDIX "A" and APPENDIX "B".

ESCALATION:

Escalation costs are excluded from the target estimate. The escalation costs are calculated within the Micro-Frame computer system according to the plan for rebaselining.

UNIT RATES:

Unit man-hours, equipment and material dollars are based on Richardson, MEANS, NECA, and or other published rates.

G & A (HO EXPENSE):

G & A are excluded from the target estimate. The G & A cost are calculated within the Micro-Frame computer system according to the plan for rebaselining.

HEALTH PHYSICS:

See attached APPENDIX "C".

RISK BUDGET:

A cost element, based on a Risk Analysis calculated for this estimate to cover a statistical probability of a 50% chance of overrun/under run to the project. The target estimate is the sum of the base estimate and the risk budget.

CONTINGENCY:

An amount budgeted to cover costs that may result from incomplete design, unforeseen and unpredictable conditions, or uncertainties. Contingency is calculated as the delta between the 50% chance of overrun and the 5% chance of overrun, indicated on the risk analysis.

PROJECTS CONTROLS ESTIMATING SERVICES

May 10, 2001

PROJECT DESCRIPTION: Hut 6 and Hut 4 Utility Redistribution

WBS NUMBER: 1.1.B.B

PROJECT ENGINEER: Tom Jesse

ESTIMATOR: Ed Lumbert

ESTIMATE NUMBER: C3-2001-05-017

ESTIMATE INCLUSIONS & EXCLUSIONS

INCLUSIONS:

- Premobilization & Mobilization.
- Demobilization.
- Labor hours.
- Material dollars.
- Equipment dollars.

EXCLUSIONS:

- Premium time.
- Permits and fees.
- FF G & A (Home Office Expense).
- Construction Management.
- Any second tier subcontract costs.
- Project Management dollars.
- Waste Management dollars.

ESTIMATE SUMMARY SHEET

PROJECT:

Hut #6 and Hut #4 utility Redistribut

DATE:

10-May-01 **ESTIMATOR:** Ed Lumbert

CLIENT:

ESTIMATE #: C3-2001-05-017

DOE

Fluor Fernald, Inc.

LOCATION: Fernald

TASK NO.: BADM2 WBS #: 1.1.B.B TOTAL \$ RATE LABOR\$ S/C\$ MAT'L\$ EQUIP. \$ ITEM DESCRIPTION MH 120 \$3,620 \$3,620 PREMOBILIZATION \$3,000 \$1,000 \$1,000 \$6,400 80 \$1,400 MOBILIZATION \$420 \$27,300 \$8,540 \$6,400 \$11,940 378 Reroute power to Hut#6 and Hut#4 \$3,200 \$3,200 140 DEMOBILIZATION \$1,420 \$40,520 \$9,400 \$12,940 **DIRECT FIELD COSTS TOTAL** 718 \$23.35 \$16,760 138 SUPERVISION - CONTRACTOR \$1,000 \$1,000 SMALL TOOLS & CONSUMABLES \$2,500 \$2,500 MISC. EQUIP. RENTAL \$500 \$1,000 **TEMPORARY FACILITIES** 22 \$500 \$500 \$200 14 \$300 TEMPORARY UTILITY HOOK-UP \$1,100 32 \$800 \$300 JOB CLEAN-UP PER DIEM / SUBSISTANCE \$500 \$400 \$100 17 **HEALTH PHYSICS S/C** \$1,800 **CERCLA - TRAINING** 75 \$1,800 \$2,900 126 \$2,900 **GET/SITE ACCESS & JOB SPECIFIC TRAINING** \$13,400 \$13,400 **PAYROLL BURDENS & BENEFITS** \$13,000 \$13,000 OVERHEAD & PROFIT \$1,000 \$1,000 **BOND** \$1,100 \$200 \$900 SALES TAX \$2,700 \$39,800 INDIRECT FIELD COSTS TOTAL \$20,100 \$14,000 \$3,000 424 \$15,940 \$4,120 \$80,320 **DIRECT & INDIRECT FIELD COSTS TOTAL** 1,141 \$32.29 \$36,860 \$23,400 \$80,320 (FY 01 DOLLARS) TARGET ESTIMATE

PAGE 1 OF 3

ROLL

PROJECT: Hut #6 and Hut #4 utility Redistribution					DATE:	10-May-01
ESTIMATE NO. C3-2001-05-017	FACTOR	RS			ESTIMATOR:	Ed Lumbert
CLIENT: DOE WBS NO.: 1.1.B.B					LOCATION: TASK NO.:	Fernald BADM2
FIXED PRICE !	LABOR \$	S/C \$	MAT'L.\$	EQUIP. \$	PPE\$	TOTAL \$
DFC DOLLARS	\$16,760	\$9,400	\$12,940	\$1,420	\$100	\$40,620
IFC COST FACTOR	2.1993	-	1.1546	2.7606	-	
BOND + OVERHEAD & PROFIT COST FACTOR	1.2111	1.2111	1.2111	1.2111	1.2111	÷
SALES TAX	•	-	1.0600	1.0600	1.0600	
DIRECT FIELD COST FACTOR =	2.6635	1.2111	1.4822	3.5439	1.2838	
BASE ESTIMATE \$'s	\$44,641	\$11,384	\$19,179	\$5,032	\$128	\$80,366
BASE FACTOR	1.0000	1.0000	1.0000	1.0000	1.0000	
TARGET ESTIMATE FACTOR	2.6635	1.2111	1.4822	3.5439	1.2838	
FPS TARGET ESTIMATE (FY01 \$)	\$44,641	\$11,384	\$19,179	\$5,032	\$128	\$80,366

ESTIMATE SUMMARY SHEET

If there are no DFC Equip. \$, enter The IFC Equip. \$'s into the direct field cost TOTAL and delete IFC Factor in G65.

PROJECT:	ES*	ГІМА	TE SUMM	ARY SHE	ET		DATE:	10-May-01	1
	C3-2001-05-017	Di	rect Field	Cost			ESTIMATOR:	Ed Lumbert	
CLIENT:	DOE		FACTO	7			LOCATION:	Fernald	
WBS NO.:	1.1.B.B						TASK NO.:	BADM2	BFU
PAY ITEM NO.	DESCRIPTION		LABOR \$	S/C \$	MAT'L.\$	EQUIP. \$	PPE \$ 100	TOTAL \$	1
	PREMOBILIZATION		(ASSIGN OR 3,620	PRORATE PP	E MATL.\$'S)-	<i>>></i> ·	100	3,720	
			\$9,640				\$130	\$9,770	4
			4 400	2 000	1,000	1,000		6,400	
	MOBILIZATION		1,400 \$3,730	3,000 \$3,630	\$1,480	\$3,540		\$12,380	
			1	, , , , , ,	1.]
	DEMOBILIZATION		3,200					3,200 \$8,520	
			\$8,520						1
	Reroute power to Hut#6 and Hut#4		8,540	6,400		420		27,300	
			\$22,750	\$7,750	\$17,700	\$1,490		\$49,690	4
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TOTAL DIREC			\$44,640	\$11,380	\$19,180	\$5,030	\$130	\$80,36	ᆔ

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e:Nestdept/project eatimales/c3/willity robaseline 2001 pbs-02/02 admin complex/but 6 hut 4 willing rediat estimate.xts/CONTRACTOR - Stated in FY01 DOLLARS

DETAIL ESTIMATE WORKSHEETS

PROJECT: Hut #6 and Hut #4 utility Redistribution ESTIMATE NO.: C3-2001-05-017 CLIENT: DOE WBS NO.: 1.1.B.B

Fluor Fernald, Inc.

DATE: 10-May-01 ESTIMATOR: Ed Lumbert LOCATION: Fernald TASK NO.: BADM2 るドルD子

TOTAL		\$3,620	\$6,400	\$27,300					-	•			**** \$40,520
EQUIP	4 1881		\$1,000	\$420				 					1962. \$16,760 (4.38)\$9,400 (4.4)\$12,940 (4)4(1) 4(4,\$1,420 (3)4)4(3)4(4,\$40,620
MAT'L	18.00		\$1,000	\$11,940				 		 			\$12,940
S/C	Section Sections		\$3,000	\$6,400									\$9,400
LABOR		\$3,620	\$1,400	\$8,540					 				\$16,760
	Equip												0.000
UNIT	Mat'i					artena area de como de como de como de como de como de como de como de como de como de como de como de como de							5 me 34.8
. COST / UNIT	S/C	 	-										\$3.00 C
	Labor								•				W.X.C.C.A.K.
S	Rate												FOREST NEFETT 8 31\$23.35 NEWSYN
MAN-HOURS	Total	 120	140	378									718
Σ	Unit												_
LIND													1 LOT
ΔI													Per Princes
IRY				nd Hut#4	-,						1	-	Cost 1279 (3151/1)
SUMMARY		PREMOBILIZATION	MOBILIZATION DEMOBILIZATION	Reroute power to Hut#6 and Hut#4			٠,						が行われる人作があるubtotal Direct Cost なおがまだれた。 かいかでい 1 2LOT
ITEM	NO.												1

DETAIL ESTIMATE WORKSHEETS

Fluor Fernald, Inc.

Hut #6 and Hut #4 utility Redistribution

PROJECT: Hut #5 and ESTIMATE NO.: C3-2001-05-017

1.1.B.B WBS NO.:

BABM2 GFUDY DATE: 10-May-01
ESTIMATOR: Ed Lumbert
LOCATION: Fernald
TASK NO.: BABM2 (S)

TOTAL		\$3,620	\$4,000	\$2,400	\$6,400	006\$	\$900	\$900	\$3,200	
EQUIP			\$500	\$500	\$1,000					
MATL			\$500	\$500	\$1,000					
S/C			\$3,000		\$3,000					
LABOR		\$3,620		\$1,400	\$1,400	006\$	\$900	006\$	\$3,200)
Equip			200	500	200					
COST/UNIT			200	200						
SOS S/C			300							
Labor	- Harris Control (1994) and the second of th				ŀ					
Rate		30.18	23.57	22.69 22.69		22.69	22.69 22.69 22.69	22.69		
MAN-HOURS Total		120	20	09	80	40	40	9	140	
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UNIT		Schedule:	m LS	S S &		S I	S S S	rs		
ΔII	actors	e baseline	_	-		-	7- 7-	-		3000000
ITEM NO.	PREMOBILIZATION A. Insurance Certificates, List of Sub-Tier Contractors Procurement Documents, Safe Work Plans, QA/QC Plan, Project Execution Plan, Construction	and Engineering Documentation, Acceptable baseline Schedules Duration 1 LS	MOBILIZATION S/C Office Trailer Survey and Engineering Controls	Install Utilities Other misc. requirements as required.	Total	DEMOBILIZATION MD Complete Punch List Items. D Remove Trailer and Change Facilities.		- 1	Total	

DETAIL ESTIMATE WORKSHEETS

PROJECT: Hut #6 and Hut #4 utility Redistribution ESTIMATE NO.: C3-2001-05-017 CLIENT: DOE WBS NO.: 1.1.B.B

Fluor Fernald, Inc.

DATE: 10-May-01 ESTIMATOR: Ed Lumbert LOCATION: Fernald TASK NO.: BADME

TOTAL		\$695	\$503	\$3,771	\$272	\$49	\$265	\$355	701\$	\$200	\$1,730	\$2,940	43,100	\$1,200	\$6.400	\$800	\$1,680	\$638							•			\$27,300
EQUIP						•	\$20									\$400		-			•							\$11,940
MAT'L		\$11	\$375	\$2,000	\$200	\$11	\$82	001\$	843	\$40	\$1,250	006,18	\$3,000	000	2	\$400	\$400											\$11,940
S/C		٠					•								\$6.400	-												\$6.400
LABOR		\$681	\$376	\$1,771	\$72	\$38	\$160	\$255	\$64	\$160	4480	440	0014	0078			\$1,280	\$638										\$8.540
	Equip					,	0.40									5.00								,				1. S. A. S. S. S. S. S. S. S. S. S. S. S. S. S.
COST/UNIT	Mati	0.50	375.00	1.60	200.00	11.25	1.70	100.00	42.62	0.44	00.007	00.6	2,000	2.03	<u>.</u>	5.00	10.00				 -							\$150 Back
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	Labor											•						*******		,								13 C 15 83
S	Rate	21.49	22.69	22.66	22.66	22.66	22.66	22.66	22.66	22.66	22.66	22.66	33 66	22.00	77.00		22.66	22.66		٠								378
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DETAIL ESTIMATE WORKSHEETS

PROJECT: Hut #6 and Hut #4 utility Redistribution ESTIMATE NO.: C3-2001-05-017 CLIENT: DOE WBS NO.: 1.1.B.B

Fluor Fernald, Inc.

DATE: 10-May-01
ESTIMATOR: Ed Lunbert
LOCATION: Fornald
TASK NO.: BABM2
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TOTAL		\$1,080 \$750 \$750 \$500 \$230 \$560 \$160 \$160 \$120		
EQUIP				
MAT'L	\$ 100 mg			
S/C				
LABOR		\$1,080 \$750 \$660 \$500 \$230 \$560 \$160 \$120		W. W. W. W. W.
	Equip			
COST/UNIT	Mat'i		·	
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	Labor			3
S	Rate	54.42 37.85 33.19 30.34 28.33 28.05 19.31 14.58		
MAN-HOURS	Total	20 20 20 17 17 8 8 8 8 17 17	5. 8.	100
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		Project Staffing 1. Project Manager 2. Project Superintendent 3. Project Engineer 4. Safety Engineer 5. Industrial Hygiene Tech. 6. QA/QC Engineer 7. Office Administration 8. Contract Administration/Scheduler 9. Clerical	TOTAL	THE PROPERTY OF THE PROPERTY O
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					APPENDIX	IDIX "A"							
PROJECT: Hut #6 and Hut #4 utility Redistribution ESTIMATE NC 03-2001-05-017 CLIENT: DOE WBS NO.: 1.1.B.B.	lut #4 utility 017	Redistribut	uo	EFFICIEN	SITE SPECIFIC EFFICIENCY / MULTIPLIER ANALYSIS	ECIFIC PLIER ANA	TASIS	-			DATE: 10-May-01 ESTIMATOR: Ed Lumbert LOCATION: Femald TASK NO.: BADMR	10-May-01 Ed Lumbert Fernald BABME	8
	EI HENCE O	ON CHART MANHOLIRS	SAIIOHNA										_
	40%	20%	%09	70%	80%	%06	100%	105%	110%	% OF NFLUENCE	WT'D VALUE	PROD. RESULT	T
CRAFT SKILL (NOTE 1)	POOR			FAIR			STD	V.G00D	V.GOOD EXCELLEN	100.0%	12.0%	0.12	7
CRAFT AVAIL.(NOTE 1)		Poor		FAIR			STD			100.0%	8.0%	0.08	
CLIMATE (NOTE 2)	SEVERE	ICE/SNOW			RAIN	-	+40 TO +85			%0.06	20.0%	0.18	
PLANT ELEVATION	·	OVER 10,000FT			6,000° TO 10,000 FT		UNDER 5,000 FT			100.0%	2.0%	0.05	- 10
WORK SPACE	1	TIDI E CHIETO		200 SF	250 SF	300 SF	350 SF			100.0%	10.0%	. 0.1	
WORK WEEK							4-10s / 5-8s			100.0%	15.0%	0.15	
60 HOUR WORK WEEK	WWWWWW	IIIIIIIIIIIIIIII IIIIIIIIIIIIIIIIIIIII		OVER 7 WEEKS	3 TO 7 WEEKS	UP TO 3 WEEKS				%0.0	%0.0	0	
60 HOUR WORK WEEK		m mmmmm	OVER 7 WEEKS	3 TO 7 WEEKS	UP TO 3 WEEKS					0.0%	0.0%	0	
SHIFTWORK 2ND SHIFT 3RD SHIFT			3RD SHIFT		2ND SHIFT		OR ONE SHIFT ONLY			100.0%	3.0%	0.03	en 10
PROJECT SIZE					400M MH AND UP	300M TO 400M MH	200M TO 300M MH	200M MH OR LESS		100.0%	4.0%	0.04	-
PLANT TYPE				REVAMP ONLY	REVAMP & NEW	NEW IN EXIST PLT	GRASS ROOTS			90.0%	8.0%	0.072	~
AREA/UNION INFLUENCE	STRONG		MILD		SOME		NONE			40.0%	10.0%	0.04	44
NOTES											100.0%	91.2%	.01
1. TURNOVER HAS BEEN CONSIDERED	CONSIDER	Q			EFFICIENCY		(AS A % OFF CHART MANHOURS)	T MANHOU	RS)			91.2%	
S. TON EXIENION WON	- E				MULTIPLIE	ER • (TO BE	MULTIPLIER - (TO BE APPLIED TO CHART M.H.'S TO OBTAIN SITE M.H.'S)	CHART M.H	1.'S TO OBT	AIN SITE M.	н.'S)	1.10	0
•													

EFFICIENCY FACTORS

PROJECT:

Hut #6 and Hut #4 utility Redistribution

ESTIMATE NO. C3-2001-05-017

CLIENT: WBS NO .: DOE 1.1.B.B

Fluor Fernald, Inc.

DATE:

10-May-01 ESTIMATOR: Ed Lumbert

LOCATION: Fernald

TASK NO .: BADM2-

BFUDD

EXAMPLE:

STANDARD CHART MANHOURS = NET 100 **EFFICIENCY FACTORS:** SITE SPECIFIC (SEE APPENDIX A)
S/T = BASE UNIT MANHOURS 10.0 110 OVERTIME PRODUCTIVITY FACTOR 0.00% (SEE DETAIL WORKSHEET BACK-UP) TASK SPECIFIC (confined space, high elevation, congestion, etc.)

PPE SPECIFIC (Based on current data and estimating knowledge)

				PPE LE	/EL					
		D	Mod.	'D'	Mod	. "C"	C	;	C	+
PRODUCTIVITY HOURS		MH's	MULTIPLIER	MH's	MULTIPLER	MH's	MULTIPLIER	MH's	MULTIPLIER	MH's
(AS A %) / ADD MH's	4.00%	4	28.00%	31	66.00%	73	74.00%	81	96.00%	10
(AS A MULTIPLIER)/TOTAL HRS	1.04	114.4	1.28	140.8	1.66	182.6	1.74	191.4	1.96	215.
TOTAL MULTIPLIER W/SITE PROD.	1.144		1.408		1.826		1.914		2.156	
NOTE : Use the Dei in a contan		ctivity Factor of a if the Safety Le			ed.					
(SEE FD FERNALD EST	IMATING SEF	RVICES REFERENC	E MANUAL II	1-6006 8.10)						
Total hours worked days = (PPE) ManDa (SEE APPENDIX C	ays to deter	mine material co	•	7	•					
	11.0	Man Days	14.0	Man Days	18.0	Man Days	19.0	Man Days	22.0	Man Days

THESE EFFICIENCY FACTORS WERE APPLIED INDIVIDUALLY THROUGHOUT THE ESTIMATE AT A TASK SPECIFIC LEVEL, TO OBTAIN A MORE ACCURATE ACCOUNT OF OVERALL EFFICIENCY IMPACT DUE TO PPE REQUIREMENTS IN HANDLING CONTAMINATED AND HAZARDOUS WASTE.

APPENDIX "B"

EFFICIENCY FACTORS

PROJECT:

Hut #6 and Hut #4 utility Redistribution

ESTIMATE NO. C3-2001-05-017 CLIENT:

DOE

WBS NO.:

1.1.B.B

DATE:

ESTIMATOR: Ed Lumbert

10-May-01

LOCATION: TASK NO .:

Fernald BADM2

BRUDZ

PPE MULTIPLIER DEVELOPEMENT

		D i	mD	mC	С	C+
CREW SIZE & MAKE-UP	STANDARD	7	7	7	7	7
	WORKER-BUDDY	0	o	o	0	0
	SUPPORT TEAM	0	ol	o	o	0
	TOTAL CREW	7	7	7	7	7
CREW SIZE RATIO		1.00	1.00	1.00	1.00	1.00
AVAILABLE WORK TIME FA	ACTOR	0.96	0.78	0.7	0.7	0.68
PPE LABOR PRODUCTIVIT	Y FACTOR	1	1	0.86	0.82	0.75
NET PRODUCTIVITY RATIO		0.96	0.78	0.602	0.574	0.51
NET PRODUCTIVITY MULT	IPLIER	1.04	1.28	1.66	1.74	1.96

These factors were based on Tables 6.1 and 6.2, Moderate Work Efforts, 66F to 85F temperature of 'Hazardous Waste Cost Control' by R.A.Selg. Modifications were made to reflect a 10 hour work day and no buddy system or support team for levels D, mC and C. The worker-buddy and support team members, if required, may be covered under Construction Mgmt. (Rad Techs).

AVAILABLE WORK TIME FACTOR		D	mD	mC	С	C+
TOTAL WORK MINUTES per [4 - 10's		600	600	600	600	600
ADDITN'L.SITE SAFETY MEETINGS NOT INCLD. IN BAS	QUANTITY	1	1	1	1	1
	MINUTES	25	25	25	25	25
TOTAL		25	25	25	25	25
PPE DON & DOFFING	QUANTITY	0	0	3	3	3
(ADJUST LEVEL D per WORK PLAN)	MINUTES	0	0	15	15	20
TOTAL			0	45	45	60
WORK BREAKS	QUANTITY	N/A	2	2	2	2
(ADJUST LEVEL D per WORK PLAN)	MINUTES	N/A	15	15	15	15
TOTAL			30	30	30	30
MOBILIZATION - ROUND TRIPS	QUANTITY	N/A	4	4	4	4
(ADJUST LEVEL D per WORK PLAN)	MINUTES	N/A	15	15	15	15
TOTAL			60	60	60	60
COOLDOWNS PER DAY	QUANTITY	N/A	4	4	4	4
** (4 OUT OF 12 MONTHS) 33.33%	MINUTES	N/A	15	15	15	15
TOTAL			20	20	20	20
AIR TANK REPLACEMENT	QUANTITY	N/A	N/A	N/A	N/A	N/A
	MINUTES	N/A	N/A	N/A	N/A	N/A
TOTAL						
AVAILABLE WORK TIME		575	465	420	420	405
AVAILABLE WORK TIME FACTOR		0.96	0.78	0.7	0.7	0.68

NOTE: Adjust 'Work Minutes per Day' basis to: 5 - 8's, or leave as 4 - 10's. Any other circumstances, over-ride the minutes per day.

^{**} Assumption based on work performed in May, June, July & August, pro-rating cost over one year. Adjust % to individual circumstances.

HEALTH PHYSICS

PROJECT:

Hut #6 and Hut #4 utility Redistribution

ESTIMATE NO. C3-2001-05-017

CLIENT: WBS NO .: DOE

1.1.B.B

DATE:

10-May-01

ESTIMATOR: Ed Lumbert

LOCATION: Fernald

TASK NO.: BADM2

BRUDZ

Fluor Fernald, Inc.

PPE"s - PERSONAL PROTECTIVE EQUIPMENT

						_	
		UNIT		* NO. C	OF CHANGE OUT	S PER WORKER	PER DAY
DESCRIPTION	UNIT	COST	Man Da	ys (TOTAL HOUR	S worked in PPE's Di	v. by WORK HOURS	/ DAY)
PPE LEVEL C / C+ / B : F/HF MASK w/RESP.&CA	RT.		•	MAN DAYS	MAT'L.\$'s	PPE LEVEL	
TYVEK COVER-ALL w/HOOD & BOOTIES - DISPOSABLE	EA	\$4.46	3	0	\$0	C/C+	
TYVEK COVER-ALL W/HOOD & BOOTIES - DISPOSABLE	EA	\$4.46	3	0	\$0	C/C+	(DOUBLE PPE)
GLOVE LINER - DISPOSABLE	PR	\$0.24	3	0	\$0	C/C+	
GLOVE, LASTEX - DISPOSABLE	PR	\$0.26	3	0	\$0	C/C+	
GLOVE, WORK - DISPOSABLE	PR	\$1.02	3	0	\$0	C/C+	
APR CARTRIDGES - DISPOSABLE	PR	\$6.98	3	0	\$0	C/C+	,
SUB-TOTAL		\$17.42	3		50		
				\$/MD =	\$0.00		
PPE LEVEL mC: FULL DRESS w/ FACE SHIELD				MAN DAYS	MAT'L.\$'s	PPE LEVEL	
LT.WT. DISPOSABLE COVERALLS W/HOOD & BOOTIE	PR	\$4.46	3	4	\$54	mC	
GLOVE LINER - DISPOSABLE	PR	\$0.24	3	4	\$3	mC	
GLOVE, LASTEX - DISPOSABLE	PR	\$0.26	3	4	\$3	mC	
GLOVE, WORK - DISPOSABLE	PR	\$1.02	3	4	\$12	mC	
SUB-TOTAL		\$5.98	3	·	\$72		

			Į	\$/MD =	\$18.00	
			QTY.	NO. OF		
SUBCONTRACTOR REQUIRED PURCHASES			WKR.	WORKERS	MAT'L.\$'s	PPE LEVEL
RUBBER BOOT COVERS-(1)PR.PER WORKER	PR	\$12.70	6	0	\$0	D/C/B
APR w/HALF FACE MASK - (1) PER WORKER	EA	\$22.30	6	0	\$0	C
APR W/FULL FACE MASK - (1) PER WORKER	EA	\$174.00	6	0	\$0	С

EΑ \$1,894.00 0 SCBA 0 \$0 C/B EA \$137.50 6 COOL VESTS C/B THERMO STRIPS \$50.00 0 \$0

SUB-TOTAL

TOTAL PPE's =

MAT'L.\$'s \$100

(FORWARD TO PAGE 2 OF 2)

:

OTHER PPE'S SUCH AS HARD HAT, SAFETY GLASSES/GOGGLES, STEEL TOED SAFETY SHOES, HEARING PROTECTION, ARE CONSIDERED THE SUBCONTRACTORS RESPONSIBILITY AND ARE COVERED IN HIS OVERHEAD EXPENSE. COSTS OF FD FERNALD SUPPLIED PPE's, SUCH AS COTTON COVERALLS, EXCHANGE OF RUBBER BOOT COVERS AND RESPIRATORS FOR CHANGEOUTS AND CLEANING OF SAME IS INCURRED BY FD FERNALD AND COSTS ARE NOT INCLUDED AS PART OF PROJECT COSTS AT THIS TIME.

APPENDIX "C"

HEALTH PHYSICS

PROJECT:

Hut #6 and Hut #4 utility Redistribution

ESTIMATE NO. C3-2001-05-017 CLIENT:

DOE

WBS NO.: 1.1.B.B

DATE:

10-May-01

ESTIMATOR: Ed Lumbert

LOCATION: Fernald

TASK NO.: BADM2

BPUDD

-MEDICAL MONITORING --

MEDICAL - PHYSICAL and IN-V	IVO MO	NITORING	- LOST	WORKER 1	TIME for RAD	II WORKERS	ONLY
					AVG.		
DESCRIPTION	QTY	HRS	WKR	TOTAL	LABOR	TOTAL	
PHYSICAL (3hrs), IN-VIVO (1hr)				HOURS	RATE	LABOR \$	
BASELINE PHYSICALS	1	4	3	12	\$23.35	\$280	
ANNUAL PHYSICALS	0	4	3	0	\$23.35	\$0	
EXIT (TERMINATION) PHYSICALS (IN-VIVO)	1	1	3	3	\$23.35	\$70	
SUB-TOTAL						\$350	

DADIATION INVESTOR O		105 100	T 14/05		5 4 5 41 1446	DI/FOO ON!! N	
RADIATION IN-VITRO S	UKVEILLA	NCE - LOS	ST WOR	KER HME	for RAD II WC	KKERS UNLY	
DESCRIPTION	QTY	HRS	WKR	TOTAL HOURS	AVG. LABOR RATE	TOTAL LABOR \$	
BI-MONTHLY BIOASSAY	0	1	3	1	\$23.35	\$30	
SUB-TOTAL						\$30	

RANDOM DRUG TESTING

	TESTS	HRS	TOTAL HOURS	AVG. RATE	LABOR \$'s	
	1	2	2	\$23.35	\$0	
NO. OF	TESTING	AVG. NO.	CHANCE!	NO. OF WKRS.	CHANCES	CONSTR
WKRS.	DAYS	OF TESTS	DAY	FOR THIS	/DAY FOR TEST	WORKING
TESTED	PER YR.	PER DAY	FOR TEST	ESTIMATE	FOR PROJECT	DAYS
2340	226	10	0.0042735	7	0.0299	20

	LABOR \$'s THRU SAFETY	LABOR \$'s	
WORK DELAYS CAUSED BY MONITORING 0.0%	\$18,360	\$0	
WORK DELAYS CAUSED BY RAD CHECKING 0.0%	\$18,360	LABOR \$'s	
	TOTAL LABOR	TOTAL MAT'L.	GRAND _ TOTAL
TOTAL HEALTH PHYSICS	\$400	\$100	\$500

(FORWARD TO ESTIMATE SUMMARY SHEET)

ACTIVITY DURATIONS

Fluor Fernald, Inc.

PROJECT:

Hut #6 and Hut #4 utility Redistribution

ESTIMATE NO. C3-2001-05-017

CLIENT: WBS NO .: DOE 1.1.B.B DATE:

10-May-01

ESTIMATOR: Ed Lumbert LOCATION: Fernald TASK NO.: BADM2

ACTIVITY	EST. DATE	START DATE	MID POINT	COMPL. DATE	ACTIVITY	DURATION
CONSTRUCTION:	29-Jan-01	01-Jun-01	16-Jun-01	01-Jul-01	1.0	MONTHS
					0	MONTHS
TOTAL					1.0	MONTHS

Note: Duration of activity was stated in ROM at 8 weeks. Actual start/finish dates may change.

	DATE of EST. to ACTIVITY DURA	MID-POINT
a.	4.5	MONTHS
b.	0	MONTHS

ACTIVITY	EST. DATE	START DATE	MID POINT	COMPL. DATE	ACTIVITY	DURATION
OPERATIONS					0	MONTHS

DATE of EST. to ACTIVITY DURA	
0	MONTHS

ACTIVITY DURATION IS USED IN DETERMINING NUMBER of WORKERS for CERCLA/SAT TRAINING HOURS and HEALTH PHYSICS COSTS.

COST IMPACT MATRIX SHEET

C3-2001-05-017 Hut #6 and Hut #4 utility Redistribution Estimate No.: Project: Client: WBS:

DOE 1.1.B.B

Fluor Fernald, Inc.

BFUDZ 10-May-01 Ed Lumbert Fernald -BABM2 Date: Estimator: Location: TASK NO.:

Base Estimate	Cost Element	lement	Cost Element	ement	Cost Element	ement	Cost Element	ement	Cost Element	lement
Total					PREMOBILIZATION	-IZATION				
\$80,360	LAB	LABOR \$	S/C \$	\$	MAT'L. \$		EQUIP. \$		PPE \$	
Cost	Base \$	\$9,640	Base \$	0\$	Base \$	0\$	Base \$	0\$	Base \$	\$130
Drivers	Low	High	Low	High	Low	High	Low	High	Low	High
Productivity/labor										
Material Pricing										
Equipment Rental										
Subcontract \$'s										
Quantity Variation										
Contamination										
Environmental Programmental										
Schedule							-			
Project Definition	-30%	%08	-30%	%08	-30%	%08	-30%	%08		
Range - %	-30%	%08	-30%	%08	-30%	%08	-30%	%08	%0	%0
Range - \$	\$6,748	\$17,352	0\$	0\$	0\$	0\$	0\$	0\$	\$130	\$130
Distribution		,		1	ח		ر			
Correlation Rank										
The second secon										

10.00mm (10.00mm)	Cost E	Cost Element	Cost E	ost Element	Cost Element	ement	Cost Element	ement	Cost Element	ement
					MOBILIZATION	ZATION				
	LABOR \$	OR \$	S/C \$	•	MAT	MAT'L. \$	EQUIP. \$	P. \$	PPE \$	\$
Cost	Base \$	\$3,730	Base \$	\$3,630	Base \$	\$1,480	Base \$	\$3,540	Base \$	0\$
Drivers	Low	High	Low	High	Low	High	Low	High	Low	High
Productivity/labor	-20%	20%								
Material Pricing										
Equipment Rental										
Subcontract \$'s										
Quantity Variation										
Contamination										
Environmental										
Schedule										
Project Definition	-20%	%09								
Range - %	-40%	400%	%0	%0	%0	%0	%0	%0	%0	%0
Range - \$	\$2,238	\$7,460	\$3,630	\$3,630	\$1,480	\$1,480	\$3,540	\$3,540	\$0	\$0
Distribution		1								
Correlation Rank										

Analyst:

Client:

COST IMPACT MATRIX SHEET

Estimate No.: Project: Client: WBS:

C3-2001-05-017
Hut #6 and Hut #4 utility Redistribution
DOE
1.1.B.B

Fluor Fernald, Inc.

Date: Estimator: Location: TASK NO.:

10-May-01 Ed Lumbert Fernald BADM2*

SCU28

公司法立案(以及於何及	Cost E	Cost Element	Cost E	st Element	Cost Element	ement	Cost Element	lement	Cost E	Cost Element
		,			DEMOBILIZATION	IZATION				
2. 数元 形型 华州市 5.	LAB	LABOR \$	S/C	S/C \$	MAT	MAT'L. \$	EQUIP. \$	P. \$	PPE \$	\$ H
Cost	Base \$	\$8,520	Base \$	0\$	Base \$	0\$	Base \$	0\$	Base \$	0\$
Drivers	Low	High	Low	High	Low	High	Low	High	Low	High
Productivity/labor										
Material Pricing					-30%	%08				
Equipment Rental							-25%	%09		
Subcontract \$'s			-30%	%09						
Quantity Variation										
Contamination										
Environmental										
Schedule										
Project Definition	-40%	100%	-10%	30%	-10%	30%	-10%	30%		
Range - %	-40%	400%	-40%	%06	-40%	110%	-35%	%06	%0	%0
Range - \$	\$5,112	\$17,040	\$0	\$0	\$0	\$0	\$0	0\$	\$0	0\$
Distribution		Ω			2					
Correlation Rank										

TANKE TO THE PARTY.	Cost E	Cost Element	Cost E	ost Element	Cost E	Cost Element	Cost Element	ement	Cost E	Cost Element
1. (1. (1. (1. (1. (1. (1. (1. (1. (1. (,		8	teroute power to	Reroute power to Hut#6 and Hut#4				
THE CONTRACTOR OF THE PARTY OF	LABOR \$	OR \$	S/C \$	\$ \$	MAT	MAT'L. \$	EQUIP. \$	P. s	ЬР	PPE \$
Cost	Base \$	\$22,750	Base \$	\$7,750	Base \$	\$17,700	Base \$	\$1,490	Base \$	0\$
Drivers	Low	High	Low	High	Low	High	Low	High	Low	High
Productivity/labor	-10%	25%								
Material Pricing					-10%	25%				
Equipment Rental							-10%	25%		
Subcontract \$'s										
Quantity Variation										
Contamination										
Environmental										
Schedule										
Project Definition	-10%	25%			-10%	25%	-10%	25%		
Range - %	-20%	%09 ^{;†} :	%0	%0	-20%	%09	-20%	20%	%0	%0
Range - \$	\$18,200	\$34,125	\$7,750	092'2\$	\$14,160	\$26,550	\$1,192	\$2,235	0\$	0\$
Distribution		, (-				
Correlation Rank										

Analyst:

Client:

ACAITCA LALL LILL FUNA COTTA ACTION

SECTION 1 5.0 RISK PLAN

Risk/Opportunity Identification and Analysis Form

Projesti Racility i Bolation and	iVillity/Redistribulion	PBS Number: 02			Total Baseline Dolle	is iMirimum Case		Total Baseline Dollas (Minimum Case)		
Evaluator: M. Stevens Date (08178, 011 Mars) # WBS Number 71	Date: (08:113-011 7 Pozos)	WestVumber 1/18/8				M1.				
Project Task	Risk and/or Opportunity	Potential Impact	ternel	lmnact	Diek Imnact		1010			9-10
			Certifat	Cost \$		Probability	Probability		Kisk Critical	Kisk Handling
			External	(Maximum			Level	(Likeliest		Strategy
R1.			river	Case)						
Plant2 none	none									
Plent 3										
Utility Isolation	Delay	Escalation	Internal	\$10,000	T	25	2	\$2,500		1 Accept
General Sump	Delay	Escalation	Internal	\$10,000	F	25	2	\$2,500		1 Accept Confine Market
Pant 8 775	none									
Heatth & Safety Building	Delay Delay stat felts to let said	Escalation	lernal III (25 25 25 25 25 25 25 25 25 25 25 25 25 2	The state of the s	25 8 8 1 3 8 4 25	2	\$5000 100		mil Accept
Liquid Storage Thirty Delay Escalation Lecalation Utility Redistribution Escalation Liling Redistribution Escalation Liling Redistribution Liling Research	Delay Delay (A. 12)	Escalation	Internal	ternal 14.7 14.000000 14.00000 16.00000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.0000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.0000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.000000 16.00000 16.00000 16.00000 16.00000 16.00000 16.00000 16.00000 16.00000 16.00000 16.00000 16.00000 16.00000 16.00000 16.00000 16.00000 16.00000 16.00000 16.00000 16.000000 16.000000 16.000000 16.000000 16.00000 16.00000 16.000000 16.000000 16.000000 16.		26	2	\$ \$ \$ \$5,000 mm.		* \$5,000
[Pilot Plant Programmen] [Utility Lepiation Figurities (Delay : 기자 기자 기자 (Escalation (미리 기자 기자	Deley William Constitution	Escalation	ternal	[1	1	25	2	\$2,500	[. 25
[[aboratory7]]	Delayson][Escalation [] [] []	[ntemai **	000/026 11 19		1.14. (2.15.)	2.	[[600]] \$5,000	1	temal@h*n h*n;sto:000 cmatematematematematematematematematemate
Administrator (Iriguidas Electrical Complex)	strical Complex 1,12 Dalay History Dalay 217,23	Ti Escalation Escalation	Internal	\$68,000		26	7 2			ang Macephina Samura Samura Recept and Samuran
East Warehouse 1722 7 Utility Isolations 1727 1	n Delay:	Escalation	enal	\$10,000	-		2	\$2,500		(1) 28
Miscellaneolus Structures	Delay Delay sincian cad to strict	Escalation (Escalation)	ernal 4.	F 575,000		26	2000 100 100 100 100 100 100 100 100 100	2 618,750 F		A Accept
Building 64/65	Delay K. J.	Escelation	emal			1. 26		2		1 Accept
[Plant 1] Phissell	Delay	Escalation **	Internal	ternal 1	1	25		82,500		22 1 1 1 2 2 2 2 2 2
Paris E. L. Constant of Consta	10ne* 14.15.11.15.14. #6.01									
Partition	1000eA									

WBS DICTIONARY CONTROL ACCOUNT/CHARGE NUMBER

U.S. DEPARTMENT OF ENERGY WORK BREAKDOWN STRUCTURE DICTIONARY PART II - ELEMENT DEFINITION

1. PROJECT TITLE	2. DATE OF CONTRACT	
FEMP (DEFENSE)	12/01/2000	
3. IDENTIFICATION NUMBER		4. INDEX LINE NO.
DE-AC24-010H20115		11
5. WBS ELEMENT CODE	6. WBS ELEMENT TITLE	
1.1.B.C	D&D PROJECTS	
7. APPROVED CP NO.		8. DATE OF CHANGES
NEW PER CP# FY01-0115-0002-00		08/15/2001
9. SYSTEM DESIGN DESCRIPTION	10. BUDGET AND REPORTING NUMBER	
CERCLA / ACA	EW05H3020	

11. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Subcontracts

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of above-grade structures in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope of above-grade D&D includes the following:

- Plant 1 Phase II Complex D&D
- Plant 2 Complex D&D
- Plant 3 Complex D&D
- Plant 5 Complex D&D
- Plant 6 Complex D&D
- Plant 8 Complex D&D
- Administration Complex D&D
- Laboratory Complex D&D
- East Warehouse Complex D&D
- General Sump Complex D&D
- Health & Safety Bldg. D&D
- Miscellaneous Structures D&D
- Bldg. 64/65 D&D
- Pilot Plant Complex D&D
- Liquid Storage Complex D&D

		•		
			•	
		•		
•				
	•			

		E DEFINITION of Account)	
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page 1
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME	
1.1.B.C	D&D PROJECTS		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER
48	J. M. STEVENS	/5187	J. M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020	FACILITY D&D		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE
NEW PER CP #FY01-0115-0002-0	0		12/00 - 01/09
12. TASK IDENTIFICATION (CONTROL ACCOUNT)	13. TASK DESCRIPTION (ON	E LINE)	
BFDD	D&D PROJECTS		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Subcontracts

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of above-grade structures in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope of above-grade D&D includes the following:

- Plant 1 Phase II Complex D&D
- Plant 2 Complex D&D
- Plant 3 Complex D&D
- Plant 5 Complex D&D
- Plant 6 Complex D&D
- Plant 8 Complex D&D
- Administration Complex D&D
- Laboratory Complex D&D
- East Warehouse Complex D&D
- General Sump Complex D&D
- Health & Safety Bldg. D&D
- Miscellaneous Structures D&D
- Bldg. 64/65 D&D
- Pilot Plant Complex D&D
- Liquid Storage Complex D&D

Project Manager

Control Account Manager

Control Team Manager

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		PE DEFINITION of Account)	
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page 2
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME	
1.1.B.C	D&D PROJECTS		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER
48	J. M. STEVENS	3/5187	J. M. STEVENS
8. BUDGET AND REPORTING NUMBER 9. BUDGET TITLE			
EW05H3020	FACILITY DED		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE
NEW PER CP #FY01-0115-0002-0	0		12/00 - 01/09
12. TASK IDENTIFICATION (CONTROL ACCOUNT)	13. TASK DESCRIPTION (ONE	E LINE)	
BFDD	D&D PROJECTS		

14. ELEMENT TASK DESCRIPTION

d. WORK SPECIFICALLY EXCLUDED:

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2000	Page 1	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME		
1.1.B.C	D&D PROJECTS			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER	
48	J. M. STEVENS/5187		J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020 FACILITY D&D				
10. ÓRIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?		11. ESTIMATED START / COMPLETION DATE		
NEW PER CP #FY01-0115-0002-00 12/00 - 01/09		12/00 - 01/09		
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)			
BFDD1	PLANT 1, PHASE II COMPLEX D&D			

a. ELEMENTS OF COST:

Subcontracts

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the Plant 1, Phase II Complex in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the Plant 1 Complex-Phase II and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilities included in the Plant 1 Complex-Phase II are 1B-Plant 1 Storage Shelter, 16N-Plant 1 Substation, 20A-Pump Station & Power Center, 30A-Chemical Warehouse, 56A-CP Storage Warehouse, 71-General In-Process Warehouse, TS-004-Tension Support Structure #4, TS-005-Tension Support Structure #5, and TS-006-Tension Support Structure #6. The scope of work for this subcontract includes, but are not limited to:

- pre-mobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- debris and equipment removal;
- release cleaning;
- transite removal;
- above-grade concrete removal;
- steel removal;

Project Manager

Control Account Manager	Control Team Manager
Spelling!	Follow 11/11 tipes.

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2000	Page 2
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME	
1.1.B.C	D&D PROJECTS		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER
48	J. M. STEVENS/5187		J. M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020 FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE			11. ESTIMATED START / COMPLETION DATE
NEW PER CP #FY01-0115-0002-00 12/00 - 01/09			12/00 - 01/09
12. TASK IDENTIFICATION (WORK PACKAGE) 13. TASK DESCRIPTION (ONE LINE)			
BFDD1	PLANT 1, PHASE II COMPLEX D&D		

- material segregation, cutting, and containerization;
- demobilization.

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page 1
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME	
1.1.B.C	D&D PROJECTS		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER
48	J. M. STEVENS/5187		J. M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020	FACILITY D&D		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?		11. ESTIMATED START / COMPLETION DATE	
NEW PER CP #FY01-0115-0002-00 12/00 - 01/09		12/00 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)		
BFDD2	PLANT 2 COMPLEX D&D		

a. ELEMENTS OF COST:

Subcontractors

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the Plant 2 Complex in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the Plant 2 Complex and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilities included in the Plant 2 Complex are 2A-Ore Refinery Plant, 2D-Metal Dissolver Building, 2F-Cold Side Ore Conveyer, and 2H-Conveyor Tunnel (from Plant 1). The scope of work for this subcontract includes, but are not limited to:

- pre-mobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- system and equipment removal;
- release cleaning;
- transite roofing removal;
- acid brick removal
- above-grade concrete removal;
- steel removal;

Project Mánager

- material segregation, cutting, and containerization;

Control Account Manager	Control Team Manager
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WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page 2
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME	
1.1.B.C	D&D PROJECTS		
5. PERFORMING DIV/DEPARTMENT CODE	ORIGINATOR NAME/PHONE 7. WBS ELEMENT MANAGER		7. WBS ELEMENT MANAGER
48	J. M. STEVENS/5187 J. M. STEVENS		J. M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020	FACILITY D&D		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE		11. ESTIMATED START / COMPLETION DATE	
NEW PER CP #FY01-0115-0002-00	-0115-0002-00 12/00 - 01/09		12/00 - 01/09
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)		
BFDD2	PLANT 2 COMPLEX D&D		

- demobilization.

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page 1
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME	
1.1.B.C	D&D PROJECTS		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE 7.		7. WBS ELEMENT MANAGER
48	J. M. STEVENS/5187		J. M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
W05H3020 FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?			11. ESTIMATED START / COMPLETION DATE
NEW PER CP #FY01-0115-0002-00 0		01/01 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE) 13. TASK DESCRIPTION (ONE LINE)			
BFDD3	PLANT 3 COMPLEX D&D		

a. ELEMENTS OF COST:

Subcontractors

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the Plant 3 Complex in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the Plant 3 Complex and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilities included in the Plant 3 Complex are 3B-Ozone Building D&D, 3C-NAR Control House D&D, Component 3D-NAR Towers D&D, 3E-Hot Raffinate Building D&D, Component 3J-Combined Raffinate Tanks D&D, Component 3K-Old Cooling Water Tower D&D, 39A-Incinerator Building D&D, and Component 22E-Utility Trench to Pit Area D&D. The scope of work for this subcontract includes, but are not limited to:

- pre-mobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- release cleaning;
- debris and equipment removal;
- transite removal;
- above-grade concrete removal;
- steel removal; /

Project Manager	Control Account Manager	Control Team Manager Roduuy Wutuker
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WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page 2
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME	
1.1.B.C	D&D PROJECTS		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER
48	J. M. STEVENS/5187		J. M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020	W05H3020 FACILITY D&D		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?			11. ESTIMATED START / COMPLETION DATE
NEW PER CP #FY01-0115-0002-00		01/01 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE) 13. TASK DESCRIPTION (ONE LINE)			
BFDD3	PLANT 3 COMPLEX D&D		

- material segregation, cutting, and containerization;
- demobilization.

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page 1
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME	
1.1.B.C	D&D PROJECTS		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE 7. WBS ELEMENT MANAGER		7. WBS ELEMENT MANAGER
48	J. M. STEVENS/5187 J. M. STEVENS		J. M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020	FACILITY D&D		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?		11. ESTIMATED START / COMPLETION DATE	
NEW PER CP #FY01-0115-0002-00 12/00 - 08/01		12/00 - 08/01	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)		
BFDD5	PLANT 5 COMPLEX D&D		

a. ELEMENTS OF COST:

Subcontracts

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the Plant 5 Complex in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the Plant 5 Complex and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilities included in the Plant 5 Complex are 5A-Metal Production Plant, and 5D-West Derby Breakout/Slag Milling. The scope of work for this subcontract includes, but are not limited to:

- pre-mobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- debris and equipment removal;
- release cleaning;
- transite removal;
- above-grade concrete removal;
- steel removal;
- material segregation, cutting, and containerization;
- demobilization.

Project Manager	Control Account Manager	Control Team Manager
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WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page 2
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME	
1.1.B.C	D&D PROJECTS		
5. PERFORMING DIV/DEPARTMENT CODE	ORIGINATOR NAME/PHONE 7. WBS ELEMENT MANAGER		7. WBS ELEMENT MANAGER
48	J. M. STEVENS/5187 J. M. STEVENS		J. M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
ЕW05H3020	FACILITY D&D		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE		11. ESTIMATED START / COMPLETION DATE	
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12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)		
BFDD5	PLANT 5 COMPLEX D&D		

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page 1
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME	
1.1.B.C	D&D PROJECTS	D&D PROJECTS	
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER
48	J. M. STEVENS/5187 J. M. STEVENS		J. M. STEVENS
BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020	FACILITY D&D		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	GINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE		11. ESTIMATED START / COMPLETION DATE
NEW PER CP #FY01-0115-0002-00	2-00 12/00 - 01/02		12/00 - 01/02
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)		
BFDD6	PLANT 6 COMPLEX D&D		

a. ELEMENTS OF COST:

Subcontractor

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the Plant 6 Complex in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the Plant 6 Complex and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilites included in the Plant 6 Complex are 6A-Metal Fabrication Plant and 6G-Plant 6 Sump Building. The scope of work for this subcontract includes, but are not limited to:

- premobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- debris and equipment removal;
- release cleaning;
- transite removal;
- above-grade concrete removal;
- steel removal;
- material segregration, cutting, and containerization;
- demobilization.

Project Manager	Control Account Manager	Control Team Manager
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WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page ·2
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME	
1.1.B.C	D&D PROJECTS		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE 7. WBS ELEMENT MANAGER		7. WBS ELEMENT MANAGER
48	J. M. STEVENS/5187 J. M. STEVENS		J. M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020	FACILITY D&D		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE
NEW PER CP #FY01-0115-0002-00 12/00 - 01/02		12/00 - 01/02	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE	E LINE)	
BFDD6	PLANT 6 COMPLEX D&D		

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page 1
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME	
1.1.B.C	D&D PROJECTS		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER
48	J. M. STEVENS/5187		J. M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020	FACILITY D&D		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	NEW SCOPE? 11. ESTIMATED START / COMPLETION D		11. ESTIMATED START / COMPLETION DATE
NEW PER CP #FY01-0115-0002-00	-00 10/01 - 01/09		10/01 - 01/09
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)		
BFDD8	PLANT 8 COMPLEX D&D		

a. ELEMENTS OF COST:

Subcontractor

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the Plant 8 Complex in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the Plant 8 Complex and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilites included in the Plant 8 Complex are 8A-Recovery Plant, 8B-Plant 8 Maintenance Building, 8C-Rotary Kiln/Drum Reconditioning Building, 8D-Plant 8 Railroad Filter Building, 8E-Drum Conveyer Shelter, 8G-Trash Compactor Area, and 8H-Soil Washing Building. The scope of work for this subcontract includes, but are not limited to:

- premobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- debris and equipment removal; release cleaning;
- transite removal;
- above-grade concrete removal;
- steel removal;
- material segregration, cutting, and containerization;

Project Manager	Control Account Manager	Control Team Manager Reduces Westerhea
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WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2001	Page 2	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME		
1.1.B.C	D&D PROJECTS			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE 7. WBS ELEMENT		7. WBS ELEMENT MANAGER	
48	J. M. STEVENS/5187 J. M. STEVENS		J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE		11. ESTIMATED START / COMPLETION DATE		
NEW PER CP #FY01-0115-0002-00	2-00 10/01 - 01/09		10/01 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)			
BFDD8	PLANT 8 COMPL	PLANT 8 COMPLEX D&D		

- demobilization.

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page 1
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME	
1.1.B.C	D&D PROJECTS	D&D PROJECTS	
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER
48	J. M. STEVENS/5187 J. M. STEVENS		J. M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020	FACILITY D&D		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE			11. ESTIMATED START / COMPLETION DATE
NEW PER CP #FY01-0115-0002-00 12/00 - 01/09		12/00 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)		
BFDDA	ADMINISTRATION COMPLEX D&D		

a. ELEMENTS OF COST:

Subcontractor

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the Administration Complex in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the Administration Complex and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilites included in the Administration Complex are 11-Services Building, 14A-Administration Building, 14B-EOC Generator Set, 31a-Vehicle Repair Garage, 46-Heavy Equipment Building, 53B-INVIVO Building, and 20K-New Admin. Area Cooling Towers. The scope of work for this subcontract includes, but are not limited to:

- premobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- debris and equipment removal; release cleaning;
- transite removal;
- above-grade concrete removal;
- steel removal;
- material segregration, cutting, and containerization;

Project Manager	Control Account Manager	Control Team Manager
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WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2001	Page 2	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME		
1.1.B.C	D&D PROJECTS			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER	
48	J. M. STEVENS/5187		J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	NAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE		11. ESTIMATED START / COMPLETION DATE	
NEW PER CP #FY01-0115-0002-00	2-00 12/00 - 01/09		12/00 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)			
BFDDA	ADMINISTRATIO	ADMINISTRATION COMPLEX D&D		

- demobilization.

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page 1
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME	· · · · · · · · · · · · · · · · · · ·
1.1.B.C	D&D PROJECTS		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER
48	J. M. STEVENS	/5187	J. M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020	FACILITY D&D		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE
NEW PER CP #FY01-0115-0002-00		12/00 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE	E LINE)	
BFDDB	LABORATORY COMPLEX D&D		

a. ELEMENTS OF COST:

Subcontractor

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the Laboratory Complex in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the Laboratory Complex and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilites included in the Laboratory Complex are 15A-Laboratory Building, 15B-Laboratory Chemical Storage, and 15C-Laboratory Garage. The scope of work for this subcontract includes, but are not limited to:

- premobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- debris and equipment removal;
- release cleaning;
- transite removal;
- above-grade concrete removal;
- steel removal;
- material segregration, cutting, and containerization;
- demobilization.

Project Manager Control Account Manager Control Team Manager Rolling Whiteham

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	1
FEMP (DEFENSE)		08/20/2001	Page 2
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME	
1.1.B.C	D&D PROJECTS		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER
48	J. M. STEVENS/5187 J. M. STEVENS		J. M. STEVENS
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020	FACILITY D&D		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE
NEW PER CP #FY01-0115-0002-00	EW PER CP #FY01-0115-0002-00 12/00 - 01/09		12/00 - 01/09
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)		
BFDDB	LABORATORY COMPLEX D&D		

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)			
1. PROJECT TITLE		2. DATE	
FEMP (DEFENSE)		08/20/2001	Page 1
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME	
1.1.B.C	D&D PROJECTS	D&D PROJECTS	
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE .	7. WBS ELEMENT MANAGER
48	J. M. STEVENS	J. M. STEVENS/5187 J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW05H3020	FACILITY D&D		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / CON		11. ESTIMATED START / COMPLETION DATE	
NEW PER CP #FY01-0115-0002-00 12		12/00 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)		
BFDDE	EAST WAREHOUSE COMPLEX D&D		

a. ELEMENTS OF COST:

Subcontractors

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the East Warehouse Complex in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the East Warehouse Complex and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilites included in the East Warehouse Complex are 20D-Elevated Potable Storage Tank, 77-Finished Products Warehouse, 79-Plant 6 Warehouse, and 82A-RIMIA. The scope of work for this subcontract includes, but are not limited to:

- premobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- debris and equipment removal;
- release cleaning;
- transite removal;
- above-grade concrete removal;
- steel removal;
- material segregration, cutting, and containerization;
- demobilization.

Project Marfager

Control Account Manager

Control Team Manager

Control Team Manager

WORK SCOPE DEFINITION (Work Package)					
1. PROJECT TITLE		2. DATE			
FEMP (DEFENSE)		08/20/2001	Page 2		
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAME				
1.1.B.C	D&D PROJECTS				
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER		
48	J. M. STEVENS	5/5187	J. M. STEVENS		
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE				
EW 05H3020	FACILITY D&D				
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE				
NEW PER CP #FY01-0115-0002-00 12/00 - 01/09			12/00 - 01/09		
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)				
BFDDE	EAST WAREHOUSE COMPLEX D&D				

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2001	Page 1	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME		
1.1.B.C	D&D PROJECTS			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER	
48	J. M. STEVENS	5/5187	J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?			11. ESTIMATED START / COMPLETION DATE	
NEW PER CP #FY01-0115-0002-00			12/00 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)			
BFDDH	HEALTH & SAFETY BLDG. D&D			

a. ELEMENTS OF COST:

Subcontractors

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the Health & Safety Building in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the Health & Safety Building and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilities included in the Health & Safety Building are 53A-Health & Safety Building D&D. The scope of work for this subcontract includes, but are not limited to:

- pre-mobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- debris and equipment removal;
- release cleaning;
- transite removal;
- above-grade concrete removal;
- steel removal;
- material segregation, cutting, and containerization;
- demobilization.

Project Manager Control Account Manager Control Team Manager Rolling Whithhu

WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2001	Page 2	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME		
1.1.B.C	D&D PROJECTS			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER	
48	J. M. STEVENS	:/5187	J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE			11. ESTIMATED START / COMPLETION DATE	
NEW PER CP #FY01-0115-0002-00 12/00 - 01/09			12/00 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)			
BFDDH	HEALTH & SAFETY BLDG. D&D			

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)					
1. PROJECT TITLE		2. DATE			
FEMP (DEFENSE)	:	08/20/2001	Page 1		
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME			
1.1.B.C	D&D PROJECTS				
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER		
48	J. M. STEVENS	:/5187	J. M. STEVENS		
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE				
EW05H3020	FACILITY D&D				
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE				
NEW PER CP FY#01-0115-0002-00	2-00 10/04 - 01/09				
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)				
BFDDM	MISCELLANEOUS STRUCTURES D&D				

a. ELEMENTS OF COST:

Subcontractors

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the Miscellaneous Structures in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the Miscellaneous Structures and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilites included in the Miscellaneous Structures are in Table 1.

TABLE 1

NO.	IDENTIFICATION	NO.	IDENTIFICATION
5F	Plant 5 Covered Storage Pad	T84	FAT&LC Union
12E	Maint. Laborer Storage Bldg.	T85	Security
12F	Maint. Laborer Storage Bldg.	T86	Utility Engineer
12G	Restored Area Maint. Bldg.	T 87	D&D/Construction
16B	Electrical Substation	T 89	WPA Mens Changeout
16C	Electrical Panels & Transformer	T90	WPA Womens Changeout
16F	Trailer Substation #1	T91	WPA Mens Changeout
16G	Trailer Substation #2	T92	WPA Breakroom
20E	Well House #1	T93	Rad. Control Unit Quad

Project Manager

Control Account Manage

Control Team Manager

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WORK SCOPE DEFINITION (Work Package) 1. PROJECT TITLE 2. DATE FEMP (DEFENSE) 08/20/2001 Page 2 3. WBS ELEMENT CODE 4. WBS ELEMENT TITLE/NAME 1.1.B.C D&D PROJECTS 5. PERFORMING DIV/DEPARTMENT CODE 6. ORIGINATOR NAME/PHONE 7 WBS FLEMENT MANAGER J. M. STEVENS/5187 J. M. STEVENS 8. BUDGET AND REPORTING NUMBER 9. BUDGET TITLE EW05H3020 FACILITY D&D 10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE NEW PER CP FY#01-0115-0002-00 10/04 - 01/09 12. TASK IDENTIFICATION (WORK PACKAGE) 13. TASK DESCRIPTION (ONE LINE) BFDDM MISCELLANEOUS STRUCTURES DED 14. ELEMENT TASK DESCRIPTION 20F Well House #2 T94 Rad. Control Unit Quad 20G Well House #3 **T95** Rad. Control Unit Quad 22B Storm Sewer Lift Station **T96** Rad. Control 22D Scale House & Weigh Scale **T97** FDF Office (CRU4) Meteorological Tower 23 24C Locomotive Maintenance Bldg. **T98** OSDF 25C Sewage Lift Station Bldg. T100 FDF Office 26C Main Elect. Substation Riser/Strainer House T103 Storage 28E Guard Post at OSDF South Entrance (formerly @T81) T108 IAWWTF 28G Guard Post NW of Bldg. 45 (T327)T109 IAWWTF 28H Guard Post South of K-65 Area T117 CRU4 Const. Supp. Office 28J Security Checkpoint (South Access Rd.) T118 CRU4 Support Office 28K Security Checkpoint (E. Park. Lot) T119 Restrooms 28L Guard Post (N. Const. Access Rd) T121 FDF Office 28M Guard Post on "F" Street T122 Storage 30D Sampling Line Processing T127 OEPA (Part of T68) 50 Maintenance Storage Building T128 Mixed Waste 52A RTRAK Building T129 OEPA (Part of T68) 52B ASTD SCEP Building T130 Breakroom 60 Quonset Hut # 1 T131 Breakroom 61 Quonset Hut # 2 T132 Kelchner Office 62 Quonset Hut # 3 T135 Boiler Maintenance 68 Pilot Plant Warehouse T138 S. Waste Un. St. Pr. Gr. 93A Southwest Boiler House T139 S. Waste Un. St. Pr. Gr. G-008 Pipe Bridges T141 Maintenance Storage TS-08 Environ. Monitor. Equip. T142 Maintenance Storage Storage ' T164 FDF Training T1 FDF T165 FDF Training Rad Safety T2 T166 Industrial Relations **T3** Wise Construction **T167** Industrial Relations **T4** FDF Training T168 ARASA Contractor

WORK SCOPE DEFINITION (Work Package)					
PROJECT TITLE			2. DATE		
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1.1.B.C	(0504DTU5NT 00D5	D&D PROJECTS 6. ORIGINATOR NAME/PH			2
5. PERFORMING DIV	//DEPARTMENT CODE	6. ORIGINATOR NAME/PH	IONE		7. WBS ELEMENT MANAGER
48		J. M. STEVEN	IS/5187		J. M. STEVENS
8. BUDGET AND REP	ORTING NUMBER	9. BUDGET TITLE			
EW05H3020		FACILITY D&D)		
10. ORIGINAL SCOPE	? / CHANGE TO WORK SCOPE? / NEW S	COPE?			11. ESTIMATED START / COMPLETION DATE
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	TION (WORK PACKAGE)	13. TASK DESCRIPTION (O	NE LINE)		10/04 01/05
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14. ELEMENT TASK D			m1 60	17161 6	
T5 T6	FDF Construction		T169 T170		ontractor
T7	Restrooms FDF		T170 T171		ontractor ontractor
T8	Wise Construction		T172	FCNDP	micraetor
T12	CRU4 (DLS)		T173	FCNDP	
T17	FDF		T174	FCNDP	
T18	Break Trailer		T175	FCNDP	
T19	Rad Safety		T176	FCNDP	
T23	10 Plex		T177	FCNDP	
T24	7 Plex North		T178	FCNDP	
T 25	7 Plex South		T179	FCNDP	
T26	Waste Management		T181	FDF Offi	
T29	Computer		T182	FDF Offi	
T30	Computer		T183	FDF Offi	
T33	Shipping Office		T186		ice Trailer
T34 T35	FDF FDF		T191 T301	IT Corp.	m/Cooldown
T36	Heavy Equip. Opera	tore	T305	_	ental Monitoring
T40	Thorium Overpack	COIS	T306		ental Monitoring
T41	Waste Certification	n (OA)	T312		ers. Cool Down
T42	Respirator Washing		T313		min. Office "A"
T43	Restoration	•	T314		min. Office "B"
T44	FDF Maintenance		T315	ARASA La	boratory Office
T45	Environmental Moni	toring	T316	ARASA La	boratory "A"
T46	Environmental Monit	toring	T317	ARASA La	boratory "B"
T49	Bio-Assay Semi-Tra:	iler	T318	· ARASA MH	B/RCLO Pow. Mod.
T 50	Rad Safety		T319	ARASA Br	
T57	Rad Safety		T320		un./Resp. Wash Fac.
T58	Construction Office		T321		B Rad. Cont. Trailer
T59	FDF Waste Managemen	nt	T322		pervisor's Office
T60	DOE Field Office		T323		ntrol Room
T61	Startup Group		T325 T326		S/WTS Pow. Mod. nt. Emissions Mon.
T62 T65	Startup Group Plant 1 Pad MC&A Of	ffi aa	T327		
T66	RIMIA Tri-Plex	iiice	T330	Doffing	ale Ticket Office Trailer
T67	Rad. Tech.		T502	IT Corp.	
T68	CRU1 Office		T505	_	es Shutdown Bk. Tlr.

WORK SCOPE DEFINITION (Work Package) 1. PROJECT TITLE 2. DATE FEMP (DEFENSE) 08/20/2001 Page 4 3. WBS ELEMENT CODE 4. WBS ELEMENT TITLE/NAME 1.1.B.C D&D PROJECTS 5. PERFORMING DIV/DEPARTMENT CODE 6. ORIGINATOR NAME/PHONE 7. WBS ELEMENT MANAGER J. M. STEVENS/5187 J. M. STEVENS 8. BUDGET AND REPORTING NUMBER 9. BUDGET TITLE EW05H3020 FACILITY D&D 10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE NEW PER CP FY#01-0115-0002-00 10/04 - 01/09 12. TASK IDENTIFICATION (WORK PACKAGE) 13. TASK DESCRIPTION (ONE LINE) BFDDM MISCELLANEOUS STRUCTURES D&D 14. ELEMENT TASK DESCRIPTION Control Point - RIMIA T69 **T**506 Office **T71** Safe Shutdown T512 Break-M. Ravenscraft **T72** Safe Shutdown T513 Construction Coordinators ARASA Changeout Facility **T74** T514 Construction (Conference Rm.) **T75** Multimedia Services T520 S&W Office T82 Capital Project T529 Storage T83 Capital Project T540 Triplex - Porter Bkrm. Railroad Tracks T603 Storage - Semi Trailer T604 Maint. Storage Semi Tlr. T608 Break Trailer-Waste Mgt. The scope of work for this subcontract includes, but are not limited to: premobilization; mobilization; - site preparation; asbestos abatement; - debris and equipment removal; release cleaning; - transite removal; above-grade concrete removal; steel removal; - material segregration, cutting, and containerization; - demobilization.

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials

	WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE			
FEMP (DEFENSE)		08/20/2001	Page 5		
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAM	VE.			
1.1.B.C	D&D PROJECTS				
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHON	VE.	7. WBS ELEMENT MANAGER		
48	J. M. STEVENS	/5187	J. M. STEVENS		
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE				
EW05H3020	FACILITY D&D				
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE		
NEW PER CP FY#01-0115-0002-00)		10/04 - 01/09		
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE	ELINE)			
BFDDM	MISCELLANEOUS	STRUCTURES D&D			
14. ELEMENT TASK DESCRIPTION					
- ODC's					

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WORK SCOPE DEFINITION (Work Package)					
1. PROJECT TITLE		2. DATE			
FEMP (DEFENSE)		08/20/2001	Page 1		
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME			
1.1.B.C	D&D PROJECTS				
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER		
48	J. M. STEVENS	3/5187	J. M. STEVENS		
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE				
EW05H3020	FACILITY D&D				
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?			11. ESTIMATED START / COMPLETION DATE		
NEW PER CP #FY01-0115-0002-00			12/00 - 01/09		
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)				
BFDDN	BLDG. 64/65 D&D				

a. ELEMENTS OF COST:

Subcontractors

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the Building 64/65 in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the Building 64/65 and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilites included in the Building 64/65 are 64-Thorium Warehouse and 65-Old Plant 5 Warehouse. The scope of work for this subcontract includes, but are not limited to:

- premobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- debris and equipment removal;
- release cleaning;
- transite removal;
- above-grade concrete removal;
- steel removal;
- material segregration, cutting, and containerization;
- demobilization.

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WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2001	Page 2	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAI	ME	·	
1.1.B.C	D&D PROJECTS			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER	
48	J. M. STEVENS	5/5187	J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?			11. ESTIMATED START / COMPLETION DATE	
NEW PER CP #FY01-0115-0002-00			12/00 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)			
BFDDN	BLDG. 64/65 D&D			

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE .		2. DATE		
FEMP (DEFENSE)		08/20/2001	Page 1	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NA	ME		
1.1.B.C	D&D PROJECTS			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER	
48	J. M. STEVENS	/5187	j. m. stevens	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW S	SCOPE?		11. ESTIMATED START / COMPLETION DATE	
NEW PER CP #FY01-0115-0002-00			12/00 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ON	E LINE)		
BFDDP	PILOT PLANT COMPLEX D&D			

a. ELEMENTS OF COST:

Subcontractors

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the Pilot Plant Complex in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the Pilot Plant Complex and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilities included in the Pilot Plant Complex are 13A-Pilot Plant Wet Side, 13B-Pilot Plant Maintenance Building, 13C-Sump Pump House, 13D-Pilot Plant Thorium Tank Farm, 37-Pilot Plant Annex, 54A-6 to 4 Reduction Facility, 54B-Pilot Plant Shelter/Warehouse, and 54C Pilot Plant Dissociator Shelter. The scope of work for this subcontract includes, but are not limited to:

- pre-mobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- debris and equipment removal;
- release cleaning;
- transite removal;
- above-grade concrete removal;
- steel removal;
- material segregation, cutting, and containerization;

Project Manager	Control Account Manager	Control Team Manager
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WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2001	Page 2	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAME			
1.1.B.C	D&D PROJECTS			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER	
48	J. M. STEVENS	3/5187	J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DA		11. ESTIMATED START / COMPLETION DATE		
NEW PER CP #FY01-0115-0002-00 12/00 - 01/09			12/00 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE	E LINE)		
BFDDP	PILOT PLANT COMPLEX D&D			

- demobilization.

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2001 P.		
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAME			
1.1.B.C	D&D PROJECTS			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER	
48	J. M. STEVENS/5187		J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE			11. ESTIMATED START / COMPLETION DATE	
NEW PER CP #FY01-0115-0002-00 12/00 - 01/09			12/00 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ON	E LINE)		
BFDDQ	LIQUID STORAGE COMPLEX D&D			

a. ELEMENTS OF COST:

Subcontractors

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the Liquid Storage Complex in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the Liquid Storage Complex and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilities included in the Liquid Storage Complex are 26A-Pump House-HP Fire Protection, 26B-Elevated Storage Water Tank, 28D-Guard Post on West End of 2nd Street, 45A-Maintenance (Former Rust Engineering and Construction Div. Building), and 80-Plant 8 Warehouse. The scope of work for this subcontract includes, but are not limited to:

- pre-mobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- debris and equipment removal;
- release cleaning;
- transite removal;
- above-grade concrete removal;
- steel removal;
- material segregation, cutting, and containerization;

Project Manager	Control Account Manager	Control Team Manager Roduuy Whitaku
7.,0.		

WORK SCOPE DEFINITION (Work Package)					
1. PROJECT TITLE		2. DATE			
FEMP (DEFENSE)		08/20/2001	Page 2		
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAME				
1.1.B.C	D&D PROJECTS				
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHO	NE	7. WBS ELEMENT MANAGER		
48	J. M. STEVENS	:/5187	J. M. STEVENS		
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE				
EW05H3020	FACILITY D&D				
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION DATE			11. ESTIMATED START / COMPLETION DATE		
NEW PER CP #FY01-0115-0002-00 12/00 - 01/09			12/00 - 01/09		
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE	E LINE)			
BFDDQ	LIQUID STORAGE COMPLEX D&D				

- demobilization.

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2001 Pag		
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAME			
1.1.B.C	D&D PROJECTS			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER	
48	J. M. STEVENS	3/5187	J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED STAR			11. ESTIMATED START / COMPLETION DATE	
NEW PER CP #FY01-0115-0002-00 12/00 - 01/09			12/00 - 01/09	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)			
BFDDS	GENERAL SUMP COMPLEX D&D			

a. ELEMENTS OF COST:

Subcontractor

b. TECHNICAL CONTENT:

This element provides for the decontamination and dismantlement (D&D) of the General Sump Complex in accordance with the OU3 Integrated Remedial Design/Remedial Action Work Plan.

c. SCOPE OF WORK:

The scope includes the D&D subcontract(s) which are responsible for the D&D of the General Sump Complex and any related components (i.e., pipe bridges, fencing, poles, etc.). Facilites included in the General Sump Complex are 2B-General/Refinery Sump Control Building D&D, 2C-Bulk Lime Handling Building D&D, 3A-Maintenance Building D&D, Component 3H-Refinery Sump D&D, 3L-Electrical Power Center Building D&D, Component 18B-General Sump D&D, Component 18D-Biodenitrification Towers D&D, and 18H-BDN Effluent Treatment Facility. The scope of work for this subcontract includes, but are not limited to:

- premobilization;
- mobilization;
- site preparation;
- asbestos abatement;
- debris and equipment removal;
- release cleaning;
- transite removal;
- above-grade concrete removal;
 - steel removal;

Project Manager	Control Account Menager	Control Team Manager Roducus Whiteher

WORK SCOPE DEFINITION (Work Package)				
1. PROJECT TITLE		2. DATE		
FEMP (DEFENSE)		08/20/2001 Pa		
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAME			
1.1.B.C	D&D PROJECTS			
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE		7. WBS ELEMENT MANAGER	
48	J. M. STEVENS	5/5187	J. M. STEVENS	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE			
EW05H3020	FACILITY D&D			
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? 11. ESTIMATED START / COMPLETION		11. ESTIMATED START / COMPLETION DATE		
NEW PER CP #FY01-0115-0002-00		12/00 - 01/09		
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ON	E LINE)		
BFDDS	GENERAL SUMP COMPLEX D&D			

- material segregration, cutting, and containerization;
- demobilization.

- Project Management
- Facility Isolation and Utility Redistribution
- Off-Site Debris Disposal
- At or Below grade concrete floor slabs, curbs, footers, pedestals and underground equipment or piping (except for equipment or piping located in accessible trenches, sumps, or floor openings).
- Labor
- Materials
- ODC's

SECTION 1 1.0 NARRATIVE

1. PROJECT TITLE:	2. DATE: 09/10/01	3. PBS#: 02
DEMOLITION AND DECONTAMINATION		
4. WBS ELEMENT CODE:	5. WBS ELEMENT TITLE:	
1.1.B.C.	D&D PROJECTS	
6. CAM NAME/ PHONE:	7. CAM SIGNATURE:	
MIKE STEVENS/ 5187		
8. ORIGINAL/ CHANGE SCOPE/ PER CP#:	9. CONTROL ACCOUNT: BFDD	

R1-F02-047

SECTION 3: BFDD - FACILITY D&D

1.0 NARRATIVE

1.1 OVERVIEW

R1-F02-047 Facility Decontamination and Demolition (D&D) includes all activities associated with the above-grade D&D of all structures identified in this plan. This work is to be performed in accordance with Operable Unit 3 (OU3) integrated Remedial Design/Remedial Action (RD/RA) Work Plan. This work consists of 15 projects as follows:

#	Project	Charge Number
1	Plant 2 D&D	BEDD2
2	Plant 3 D&D	BEDDS
3.1	General Sump D&D	BEDDS
4	Plant 8 D&D	BFDD8
- 3. sk. sk. 5.	Health & Safety Building D&D	BEDDH
6.	Liquid Storage D&D	BFDDQ
7.52	Pilot Plant D&D	BEDDRAME
8.	Laboratory D&D	3 BEDDE
managing materials 9.	Administration (Includes : : Electrical Complex): D&D	BFDDA
31.40	East Warehouse D&D	BEDDE
11	Mīscellaneous Structures D&B	BEDDM
12,52	Building 64/65 D&D	BEDDN
29/4/47/18 H	Plant 1, Phase II D&D	BEDDIN
14	Plant 5 D&D	BEDD5
15.	Plant 6 D&D	BFDD6

R1-F02-050 Many of these projects are part of a single D&D Closure Project Contract that was awarded in August 2001. The value of the structures that are included in the D&D Closure Project are based on a percentage of the award value.

1.2 ASSUMPTIONS/EXCLUSIONS

1.2.1 Assumptions

- One single source Contractor procurement for all D&D work.
- The effluent collection containers are supplied by Fluor Fernald D&D.
- T-95 is available to the Contractor as a change/decon facility, located on the corner of 101st and "B" Street (east of Building 3A).
- T-130 is available to the Contractor as a break/lunch facility and is located on the corner of 101st and "B" Street (NE of Plant 8).
- Building 3A is available to the Contractor for use as a storage area until demolition of the building is required as defined in the General Sump Complex. Facility renovation and utility modification is not required.
- The Contractor will place their required temporary facilities in the suggested locations due to the availability of water and power. The asbestos decon trailer will be place immediately west of T-95. The lunch/break trailer will be placed on 101st Street, just south of Building 3A.
- Temporary electric to be supplied from Building 3L until demolition of the building is required as defined in the General Sump Complex.
- Water from two existing sources (a hydrant NW of 101st and "A" Street and the existing water hook-up to T-95).
- The thorium will still be the contaminant of concern in the Extraction Area of Building 2A and D&D will be performed under thorium controls.
- The existing donning/doffing room located on the exterior south side of the extraction area, will be used by the D&D Contractor for PPE exchange from thorium to uranium controls.
- The gunnite, which encases the Digestion Area "hot" side tanks, are non-ACM.
- Personnel will be required to work in supplied air during first line breaks of pipes and tanks (i.e., equipment demolition) due to the possible release of NO₂.
- No process hold-up material is expected other than that specifically identified by quantity in the SSD turnover package.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment) has been removed from this complex.
- No Contractor generated change orders for changed conditions including unidentified materials, contaminated equipment (i.e. shears, skid steers) etc.
- Denitration and Digestion will be worked under U238 isotopes of concern.
- Extraction will be worked under Thorium 230 isotope of concern.
- All contaminants have been identified and levels of contaminants are adequately determined.
- The masonry/concrete removal will be performed utilizing a concrete shear.
- All utilities have been isolated by Facilities Isolation.

- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the OSDF.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

- One single source Contractor procurement for all D&D work.
- The Plant 2, Plant 3, Plant 8 and General Sump Complexes will be awarded as one contract. Since Plant 3 D&D is planned to begin second, the cost and technical scope for mobilization items (i.e.: asbestos trailer, lunch/break trailer, etc.) are included in the Plant 2 Technical Scope.
- T-95 is available to the Contractor as a change/decon facility, located on the corner of 101st and "B" Street (east of Building 3A).
- T-130 is available to the Contractor as a break/lunch facility and is located on the corner of 101st and "B" Street (NE of Plant 8).
- Building 3A is available to the Contractor for use as a storage area until demolition of the building is required as defined in the General Sump Complex. Facility renovation and utility modification is not required.
- Temporary electric to be supplied from Building 3L until demolition of the building is required as defined in the General Sump Complex.
- Water from two existing sources (a hydrant NW of 101st and "E" Street and the existing water hook-up to T-95).
- The Contractor will place T-95, T-130 and their required temporary facilities in the suggested locations due to the availability of water and power. The asbestos decon trailer will be place immediately west of T-95. The lunch/break trailer will be placed on 101st Street, just south of Building 3A.
- The effluent collection containers are supplied by Fluor Fernald D&D.
- Thorium will still be the contaminant of concern in Buildings 3E and 39A and D&D will be performed under thorium controls.
- The existing donning/doffing room located on the exterior south side of the extraction area, will be used by the D&D Contractor for PPE exchange from thorium to uranium controls.
- Personnel will be required to work in supplied air during first line breaks of pipes and tanks (i.e., equipment demolition) due to the possible release of NO₂.
- No process hold-up material is expected.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All utilities have been isolated by Facilities Shutdown.
- All miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment) has been removed from this complex.
- No Contractor generated change orders for changed conditions including unidentified materials, contaminated equipment (i.e. shears, skid steers) etc.

- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the OSDF.
- In accordance with the OU3 Remedial Investigation and Feasibility Study (Final, February 1996), PCBs and hazardous materials are not contaminants of concern (COCs). In addition, based on process knowledge, no process-related materials are anticipated for this complex.
- Fluor Fernald will supply a minimum of one HEPA Vacuum Cleaner for each crew working at a time and enough to replace those that are being serviced for filter integrity testing, and all attachments required to perform work under this Task Order.
- Fluor Fernald will supply air filtration devices and appurtenances required to perform work (Specification Section 15860).
- Fluor Fernald Waste Generator Services will supply all ROBs.
- No utility redistribution is required.
- Buildings 3E and 39A will be worked under Thorium 230 isotope of concern.
- Buildings 3B & 3C and Components 3D, 3J, 3K and 22E will be worked under U238 isotopes of concern.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

General Sump

- One single source Contractor procurement for all D&D work.
- T-95 is available to the Contractor as a change/decon facility, located on the corner of 101st and "B" Street (east of Building 3A).
- T-130 is available to the Contractor as a break/lunch facility and is located on the corner of 101st and "B" Street (NE of Plant 8).
- Building 3A is available to the Contractor for use as a storage area until demolition of the building is required. Facility renovation and utility modification is not required.
- Temporary electric to be supplied from Building 3L until demolition of the building is required. At that time, the Contractor should provide alternate temporary power (i.e., generator(s)).
- Water from two existing sources (a hydrant NW of 101st and "E" Street and the existing water hook-up to T-95).
- The effluent collection containers are supplied by Fluor Fernald D&D.
- No process hold-up material is expected other than that specifically identified by quantity in the SSD turnover package.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- Facility Owner has removed all miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment).
- No utility redistribution is required with the exception of Hut 2.
- No Contractor generated change orders for changed conditions including unidentified materials, contaminated equipment (i.e. shears, skid steers) etc.

- All General Sump buildings and components will be worked under U238 isotopes of concern.
- All contaminants have been identified and levels of contaminants are adequately determined.
- The masonry/concrete removal will be performed utilizing a concrete shear.
- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the OSDF.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

- One single source Contractor procurement for all D&D work.
- The effluent collection containers are supplied by Fluor Fernald D&D.
- T-95 is available to the Contractor as a change/decon facility, located on the corner of 101st and "B" Street (east of Building 3A).
- T-130 is available to the Contractor as a break/lunch facility and is located on the corner of 101st and "B" Street (NE of Plant 8).
- Scabbling one inch from the second floor of Building 8A in the muffle furnace area will
 not require additional structural reinforcement to continue interior work in the nearby
 area.
- None of the floor brick on the wet side of Building 8A is acid brick.
- The Rotary Kiln pedestals will remain for below grade remediation during SCEP Area 4B excavation.
- Floor loading of the second floor of Building 8A is adequate to remove interior equipment without further structural reinforcement.
- The Contractor will place their required temporary facilities in the suggested locations due to the availability of water and power. The asbestos decon trailer will be place immediately west of T-95. The lunch/break trailer will be placed on 101st Street, just south of Building 3A.
- Temporary electric to be supplied from Building 3L until demolition of the building is required as defined in the General Sump Complex.
- The thoron readings in 8A will be below derived air concentration (DAC) action levels and will not require shortened stay times.
- Water from two existing sources (a hydrant NW of 101st and "E" Street and the existing water hook-up to T-95).
- Thorium will still be the contaminant of concern in Building 8A and D&D will be performed under thorium controls.
- The donning/doffing room will be used by the D&D Contractor for PPE exchange from thorium to uranium controls.
- Personnel will be required to work in supplied air during first line breaks of pipes and tanks (i.e., equipment demolition) due to the possible release of NO₂.
- No process hold-up material is expected other than that specifically identified by quantity in the SSD turnover package.
- All chemicals have been removed from this complex.

- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment) has been removed from this complex.
- No Contractor generated change orders for changed conditions including unidentified materials, contaminated equipment (i.e. shears, skid steers) etc.
- All utilities have been isolated by Facilities Shutdown.
- All contaminants have been identified and levels of contaminants are adequately determined.
- Buildings 8B, 8C, & 8D and Components 8E, 8G & 8H will be worked under U238 isotopes of concern.
- Buildings 8A will be worked under Thorium 230 isotope of concern.
- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the OSDF.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

R1-F02-047

Health and Safety Building

- One single source Contractor procurement for all D&D work
- The effluent collection containers are supplied by Fluor Fernald D&D.
- No process hold-up material is expensed.
- All chemicals have been removed from this complex.
- All resords have been removed from this complex:
- All salvageable equipment has been removed from this complex.
- All miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment) has been removed from this complex.
- No Contractor generated change orders for changed conditions including unidentified materials, contaminated equipment (i.e. shears, skid steers) etc.
- All buildings in this complex will be worked under U238 isotopes of concern.
- All contaminants have been identified and levels of contaminants are adequately betermined.
- There is no process-related equipment in the complex with the exception of the laundry area located in the Services Building (15).
- Medical, dosimetry, and other facility occupants will have removed any salvageable equipment prior to turnover to the D&D project. Any remaining equipment will be handled as waste.
- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the OSDF.
- Regulatory approval for the D&D of Building 53A (Health and Safety Building) will be obtained prior to the end of August 2001. An Implementation Plan letter for Building 53A will be submitted to DOE and the Regulatory Agencies prior to the end of August 2001.
- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the GSDF.

- In accordance with the OU3 Remedial Investigation and Feasibility Study (Final), February 1996), PCBs and hazardous materials are not contaminants of concern (COCs). In addition, based on process knowledge, no process-related materials are anticipated for this complex.
- Fluor Fernald will supply a minimum of one HEPA Vacuum Cleaner for each crew working at a time and enough to replace those that are being serviced for filter integrity testing, and all attachments required to perform work under this Task Order.
- Fluor Fernald will supply air filtration devices and appurtenances required to perform work (Specification Section 15860).
- Fluor Fernald will supply all ROBs.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

Liquid Storage

- One single source Contractor procurement for all D&D work.
- The effluent collection containers are supplied by Fluor Fernald D&D.
- No process hold-up material is expected.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment) has been removed from this complex.
- No Contractor generated change orders for changed conditions including unidentified materials, contaminated equipment (i.e. shears, skid steers) etc.
- All buildings (26A, 26B, 28D, 45A, and 80) in this complex will be worked under U238 isotopes of concern.
- Contractor will use Fluor provided break and change out trailers, related support facilities and all required utilities already located at the Plant 2 Complex.
- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the OSDF.
- In accordance with the OU3 Remedial Investigation and Feasibility Study (Final, February 1996), PCBs and hazardous materials are not contaminants of concern (COCs). In addition, based on process knowledge, no process-related materials are anticipated for this complex.
- Fluor Fernald will supply a minimum of one HEPA Vacuum Cleaner for each crew
 working at a time and enough to replace those that are being serviced for filter
 integrity testing, and all attachments required to perform work under this Task Order.
- Fluor Fernald will supply air filtration devices and appurtenances required to perform work (Specification Section 15860).
- Fluor Fernald will supply all ROBs.
- No utility redistribution to the project or surrounding areas is needed.
- No effluent collection containers are required for the East Warehouse Complex D&D Project.

- Non structural debris will be directly loaded into containers by the Contractor(s) for relocation to the OSDF. All debris from the Liquid Storage Complex will be able to be placed in the OSDF.
- All contaminants have been identified and levels of contaminants (especially Thorium 230) are adequately determined.
- There will be no excess equipment remaining in the buildings at the start of the project; therefore, assume any equipment left behind (especially in Building 45) will be considered waste.
- The weigh scale will be abandoned in place prior to the start of the project.
- None of the components within the Liquid Storage Complex contain process-related metals.
- The Plant 2 Complex and Plant 3 Complex D&D projects have progressed to the point that the Elevated Water Storage Tank can be felled to the east (in the Plant 2/3 area).
- Water from two existing sources (a hydrant NW of 101st and "E" Street and the existing hook-up to T-95).
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

Pilot Plant

- One single source Contractor procurement for all D&D work.
- The effluent collection containers are supplied by Fluor Fernald D&D.
- Personnel will be required to work in supplied air during first line breaks of pipes and tanks (i.e., equipment demolition) due to the possible release of NO₂.

R1-F02-016

- No process hold-up material is expected other than what is identified in Safe Shutdown turnover package.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- With the exception of 13B electric, all utilities have been isolated by Facilities Shutdown.
- All miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment) has been removed from this complex.
- No Contractor generated change orders for changed conditions including unidentified materials, contaminated equipment (i.e. shears, skid steers) etc.
- Contractor will relocate and install Fluor provided break (T-131) and change out trailer (T-94), related support facilities and all required utilities already established and located at the Pilot Plant Complex.
- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the OSDF.
- In accordance with the OU3 Remedial Investigation and Feasibility Study (Final, February 1996), PCBs and hazardous materials are not contaminants of concern (COCs). In addition, based on process knowledge, no process-related materials are anticipated for this complex.

- Fluor Fernald will supply a minimum of one HEPA Vacuum Cleaner for each crew working at a time and enough to replace those that are being serviced for filter integrity testing, and all attachments required to perform work under this Task Order.
- Fluor Fernald will supply air filtration devices and appurtenances required to perform work (Specification Section 15860).
- Fluor Fernald Waste Generator Services will supply all ROBs.
- No utility redistribution is required.
- Buildings 13C, 37, 54A, 54B and 54C will be worked under U238 isotopes of concern.
- Buildings 13A, 13B, Component 13D and the Sly dust collectors will be worked under Thorium 230 and Thorium 232 isotopes of concern.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

Laboratory

- One single source Contractor procurement for all D&D work.
- The effluent collection containers are supplied by Fluor Fernald D&D.
- Thorium will be the contaminant of concern in some areas of Building 15A.
 Specifically, Rooms C15 & C40 for Thorium 230 and Room S43 for Thorium 232. D&D will be performed under thorium controls in these areas. Otherwise the other areas of 15A as well as 15B and 15C will be demolished under U238 controls.
- No process hold-up material is expected.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment) has been removed from this complex.
- No Contractor generated change orders for changed conditions including unidentified materials, contaminated equipment (i.e. shears, skid steers) etc.
- Contractor will relocate and install Fluor provided break (T-131) and change out trailers (T-94), related support facilities and all required utilities.
- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the OSDF.
- In accordance with the OU3 Remedial Investigation and Feasibility Study (Final, February 1996), PCBs and hazardous materials are not contaminants of concern (COCs). In addition, based on process knowledge, no process-related materials are anticipated for this complex.
- Fluor Fernald will supply a minimum of one HEPA Vacuum Cleaner for each crew working at a time and enough to replace those that are being serviced for filter integrity testing, and all attachments required to perform work under this Task Order.
- Fluor Fernald will supply air filtration devices and appurtenances required to perform work (Specification Section 15860).
- Fluor Fernald Waste Generator Services will supply all ROBs.
- The chemical hoods and associated duct work is process-related debris that will be dispositioned at Envirocare.

- Any concrete debris that has fallen into the utility tunnels during pipe removal will remain for the below-grade remediation.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

R1-F02-047

Administration (Includes Electrical Complex)

- One single source Contractor procurement for all D&D work.
- The effluent collection containers are supplied by Fluor Fernald D&D.
- No process hold-up material is expected.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment) has been removed from this complex.
- No Contractor generated change orders for changed conditions including unidentified materials, contaminated equipment (i.e. shears, skid steers) etc.
- Contractor will install Fluor provided break and change out trailers, related support facilities and all required utilities.
- All buildings in this complex will be worked under U238 isotopes of concern.
- All contaminants have been identified and levels of contaminants are adequately determined.
- There is no process-related equipment in the complex with the exception of the laundry area located in the Services Building (11).
- Medical, dosimetry, and other facility occupants will have removed any salvageable equipment prior to turnover to the D&D project. Any remaining equipment will be handled as waste.
- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the OSDF.
- In accordance with the OU3 Remedial Investigation and Feasibility Study (Final, February 1996), PCBs and hazardous materials are not contaminants of concern (COCs). In addition, based on process knowledge, no process-related materials are anticipated for this complex.
- Fluor Fernald will supply a minimum of one HEPA Vacuum Cleaner for each crew working at a time and enough to replace those that are being serviced for filter integrity testing, and all attachments required to perform work under this Task Order.
- Fluor Fernald will supply air filtration devices and appurtenances required to perform work (Specification Section 15860).
- Fluor Fernald will supply all ROBs.
- The Main Electrical Substation components 16A, 16D, and 16E will remain post closure and no relocation of this substation is necessary.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

East Warehouse

- One single source Contractor procurement for all D&D work.
- The effluent collection containers are supplied by Fluor Fernald D&D.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment) has been removed from this complex.
- No Contractor generated change orders for changed conditions including unidentified materials, contaminated equipment (i.e. shears, skid steers) etc.
- All buildings in this complex will be worked under U238 isotopes of concern.
- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the OSDF.
- In accordance with the OU3 Remedial Investigation and Feasibility Study (Final, February 1996), PCBs and hazardous materials are not contaminants of concern (COCs). In addition, based on process knowledge, no process-related materials are anticipated for this complex.
- Fluor Fernald will supply a minimum of one HEPA Vacuum Cleaner for each crew working at a time and enough to replace those that are being serviced for filter integrity testing, and all attachments required to perform work under this Task Order.
- Fluor Fernald will supply air filtration devices and appurtenances required to perform work (Specification Section 15860).
- Fluor Fernald Waste Generator Services will supply all ROBs.
- No utility redistribution to the project or surrounding areas is needed. Electrical for D&D activities is to be supplied from the main electrical substation. Water for D&D activities is to be supplied from two existing sources (north of 1st Street on "D" Street and north of 1st Street on east of "E" Street).
- No effluent collection containers are required for the East Warehouse Complex D&D Project.
- Debris will be directly loaded into containers by the Contractor(s) for relocation to the OSDF. All debris from the East Warehouses Complex will be able to be placed in the OSDF.
- T66 and T69 will be demolished at the same time as Building 82A.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

Miscellaneous Structures

- No process hold-up material in any of these buildings, components, or trailers.
- All chemicals have been removed prior to D&D.
- All records have been removed prior to D&D.
- All salvageable equipment has been removed prior to D&D.
- All miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment) has been removed prior to D&D.

- Buildings 60 and 61, will be worked under Thorium 232 isotope of concern. All other components will be worked under U238 isotopes of concern.
- Fluor Fernald will supply a minimum of one HEPA Vacuum Cleaner for each crew working at a time and enough to replace those that are being serviced for filter integrity testing, and all attachments required to perform work.
- Fluor Fernald will supply air filtration devices and appurtenances required to perform work (Specification Section 15860).
- Fluor Fernald Waste Generator Services will supply all ROBs.
- No effluent collection containers are required.
- The Contractor will place their required temporary facilities in the suggested locations due to the availability of water and power.
- Thorium is the contaminant of concern for Buildings 60 and 61. D&D will be performed under thorium controls.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

R1-F02-047

Building 64/65

- No process hold-up material in any of these buildings, components, or trailers.
- All chemicals have been removed prior to D&D.
- All records have been removed prior to D&D.
- All salvageable equipment has been removed prior to D&D.
- All miscellaneous debris (f.e.: rolling stock, trash, used PPE and miscellaneous used equilibrent) has been removed prior to D&D.
- Fluor Femald will supply a minimum of one HEPA Vacuum Cleaner for each crew working at a time and enough to replace those that are being serviced for filter integrity testing, and all attachments required to perform work.
- Eluor Fernald will supply air filtration devices and appurtenances required to perform work (Specification Section 15860).
- O Puor Fernald Waste Generator Services will supply all ROBS.
- No enfluent collection containers are required.
- District Contractor will place their required temporary facilities in the suggested locations que to the availability or water and power.
- The funds the contamnant of concern for Buildings 64 and 65. 1980 will be performed under the funds.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of Sully 2001 and awarded by the end of September 2001.

Plant 1, Phase II

- One single source Contractor procurement for all D&D work.
- The effluent collection containers are supplied by Fluor Fernald D&D.
- No process hold-up material is expected.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.

- All salvageable equipment has been removed from this complex.
- All miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment) has been removed from this complex.
- No Contractor generated change orders for changed conditions including unidentified materials, contaminated equipment (i.e. shears, skid steers) etc.
- R1-F02-047
- All buildings (1B, 16N, 20A, 30A, 56A, 71, TS-04, TS-05 and TS-06) will be worked under U238 isotopes of concern.
- Contractor will use Fluor provided break and change out trailers (T-93), related support facilities and all required utilities.
- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the OSDF.
- In accordance with the OU3 Remedial Investigation and Feasibility Study (Final, February 1996), PCBs and hazardous materials are not contaminants of concern (COCs). In addition, based on process knowledge, no process-related materials are anticipated for this complex.
- Fluor Fernald will supply a minimum of one HEPA Vacuum Cleaner for each crew working at a time and enough to replace those that are being serviced for filter integrity testing, and all attachments required to perform work under this Task Order.
- Fluor Fernald will supply air filtration devices and appurtenances required to perform work (Specification Section 15860).
- Fluor Fernald will supply all ROBs.
- No utility redistribution to the project or surrounding areas is needed. Electrical for D&D activities is to be supplied from the main electrical substation. Water for D&D activities is to be supplied from two existing sources (north of 2nd Street).
- Non structural debris will be directly loaded into containers by the Contractor(s) for relocation to the OSDF. All debris from the Plant 1, Phase II Complex will be able to be placed in the OSDF.
- Soil will be available for OSDF placement. No interim storage of debris (and no double handling) will be necessary.
- All contaminants have been identified and levels of contaminants (especially Thorium 232) are adequately determined.
- The three tension support structures will not be salvaged and will be dispositioned in the OSDF.
- Assume the roof is a non-asbestos roof and contains a styrene insulation.
- There will be no excess equipment remaining in the buildings at the start of the project; therefore, assume any equipment left behind will be considered waste.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

- Contractor procurement for all D&D work is completed and the project is scheduled for completion in May 2001.
- T-95 is available to the Contractor as a change/decon facility, located on the corner of 1st and "C" Street.

- T-130 is available to the Contractor as a break/lunch facility and is located on the corner of 1st and "C" Street.
- Building 5F is available to the Contractor for use as a storage area until demolition of the building is required.
- Temporary electric is supplied from the Plant 9 substation until demolition of the building is required.
- Water from two existing sources (a hydrant NW of 1st and "E" Street and the existing water hook-up to T-95).
- The Contractor will place their required temporary facilities in the suggested locations due to the availability of water and power. The asbestos decon trailer will be place immediately east of T-95.
- The effluent collection containers are supplied by Fluor Fernald D&D.
- No process hold-up material is expected.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All utilities have been isolated by Facilities Shutdown.
- All miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment) has been removed from this complex.
- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the OSDF.
- In accordance with the OU3 Remedial Investigation and Feasibility Study (Final, February 1996), PCBs and hazardous materials are not contaminants of concern (COCs). In addition, based on process knowledge, no process-related materials are anticipated for this complex.
- Fluor Fernald will supply a minimum of one HEPA Vacuum Cleaner for each crew working at a time and enough to replace those that are being serviced for filter integrity testing, and all attachments required to perform work under this Task Order.
- Fluor Fernald will supply air filtration devices and appurtenances required to perform work (Specification Section 15860).
- Fluor Fernald Waste Generator Services will supply all ROBs.
- No utility redistribution is required.
- All buildings in this complex will be worked under U238 isotopes of concern.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

- Contractor procurement for all D&D work is completed and the project is scheduled for completion in December 2001.
- T-94 is available to the Contractor as a change/decon facility, located on the corner of 1st and "D" Street.
- T-131 is available to the Contractor as a break/lunch facility and is located on the corner of 1st and "D" Street.
- Facility isolation and utility redistribution is not required.

- Temporary electric to be supplied from Plant 9 Substation until demolition of the building is required.
- Water from two existing sources (a hydrant NW of 101st and "E" Street and the existing water hook-up to T-95).
- The Contractor already has all temporary facilities installed. The asbestos decon trailer will be place immediately east of T-94.
- The effluent collection containers are supplied by Fluor Fernald D&D.
- All chemicals have been removed from this complex.
- All records have been removed from this complex.
- All salvageable equipment has been removed from this complex.
- All utilities have been isolated by Facilities Shutdown.
- All miscellaneous debris (i.e.: rolling stock, trash, used PPE and miscellaneous used equipment) has been removed from this complex.
- Debris will be loaded directly into Fluor Fernald Waste Generator Services containers by the Contractor(s) for relocation to the OSDF.
- In accordance with the OU3 Remedial Investigation and Feasibility Study (Final, February 1996), PCBs and hazardous materials are not contaminants of concern (COCs). In addition, based on process knowledge, no process-related materials are anticipated for this complex.
- Fluor Fernald will supply a minimum of one HEPA Vacuum Cleaner for each crew working at a time and enough to replace those that are being serviced for filter integrity testing, and all attachments required to perform work under this Task Order.
- Fluor Fernald will supply air filtration devices and appurtenances required to perform work (Specification Section 15860).
- Fluor Fernald Waste Generator Services will supply all ROBs.
- Perched Water System must remain operational during D&D activities.
- Building 6A will be worked under U238 isotopes of concern.
- The sole source D&D contractor concept, to be performed by MACTEC, will be accepted by DOE by the end of July 2001 and awarded by the end of September 2001.

1.2.2 Exclusions

Work not included in the projects is as follows:

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings);
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation;
- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this Closure Plan.

Plant 3

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings).
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation.
- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this closure plan.

General Sump

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings);
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation;
- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this Closure Plan.

Plant 8

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings);
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation;
- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this Closure Plan.

R1-F02-047

Health and Safety Building

- Removal of underground equipment or piping (except for equipment and piping located in accessible frenches, sumps, and floor openings).
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation.
- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this Closure Plan.

Liquid Storage

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings).
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation.

- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this Closure Plan.

Pilot Plant

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings).
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation.
- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this Closure Plan.

Laboratory

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings).
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation.
- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this Closure Plan.

R1-F02-047

Administration (Includes Electrical Complex)

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings).
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation.
- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this Closure Plan.

East Warehouse

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings).
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this Closure Plan.

Miscellaneous Structures

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings).
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation.
- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this Closure Plan.

R1-F02-047

Building 64/65

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings).
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation.
- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this Closure Plan.

Plant 1, Phase II

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings).
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation.
- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of on-site and off-site waste.
- All other D&D work not specified in this Closure Plan.

Plant 5

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings).
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation.
- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this Closure Plan.

- Removal of underground equipment or piping (except for equipment and piping located in accessible trenches, sumps, and floor openings).
- Removal and/or demolition of concrete footers, concrete floor slabs and curbs, and concrete footers for overhead pipe racks at or below grade elevation.

- Treatment of HWMU rinse water and decontamination wastewater and final disposition of debris.
- Handling, transportation and disposition of onsite and offsite waste.
- All other D&D work not specified in this Closure Plan.

1.2.3 Government-Furnished Equipment/Services

There are no government-furnished equipment/services associated with this scope of work.

1.3 DRIVERS

D&D of the Complexes will be executed for the following reasons:

- D&D of all facilities at the FEMP is stipulated in the OU3 Record of Decision for Interim Remedial Action (IROD) (DOE1994a), with final treatment and disposition stipulated in the OU3 Record of Decision for Final Remedial Action (DOE 1996a).
- The OU3 Integrated RD/RA Work Plan (Final, May 1997) established a remediation schedule and an EPA Enforceable Milestone for the initial execution of each D&D Project. Any changes to the Milestones will be modified to meet the site objectives and the EPA notified accordingly.

Plant 2

 The Plant2 Complex is completely vacated of all personnel and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) are completed.

Plant 3

 The Plant3 Complex is completely vacated of all personnel and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) are completed.

General Sump

 The General Sump Complex is completely vacated of all personnel and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) are completed.

Plant 8

 The Plant8 Complex is completely vacated of all personnel and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) are completed. R1-F02-047

Health and Safety Building

 The Health and Safety Building must be completely vacated by all personnel and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) completed by FF M&SI by June 2004.

Liquid Storage

 The Liquid Storage Complex must be completely vacated by all personnel and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) completed by FF M&SI by June 2002 for Buildings 26A, 26B, and 28D, and by June 2004 for Buildings 45A and 80.

Pilot Plant

• The Pilot Plant Complex must be completely vacated by all personnel and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) completed by June 2003.

Laboratory

• The Laboratory Complex must be completely vacated by all personnel and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) completed by June 2004.

Administration (Includes Electrical Complex)

 The Administration Complex must be completely vacated by all personnel and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) completed by FF M&SI by June 2004.

East Warehouse



The East Warehouse Complex must be completely vacated by all personnel and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) completed by FF M&SI by June 2005.

Miscellaneous Structures

 Miscellaneous structures must be completely vacated by all personnel and processes and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) must be completed by FF M&SI three (3) months prior to the beginning of D&D activities as indicated on the schedule presented in Section 2.0. R1-F02-047

Building 64/65

Building 64/65 must be completely vacated by all personnel and processes and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) must be completed by FF M&SI three (3) months prior to the beginning of D&D activities as indicated on the schedule presented in Section 2.0.

Plant 1, Phase II

 The Plant 1 Phase II Complex must be completely vacated by all personnel and processes, Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) completed by FF M&SI by June 2005.

Plant 5

 The Plant5 Complex is completely vacated of all personnel and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) are completed.

Plant 6

 The Plant 6 Complex must be completely vacated by all personnel and Facility Closure activities (i.e. removal of salvageable equipment, chemicals, filters, etc.) completed by June 2003.

1.4 PROJECT PHYSICAL DESCRIPTION

R1-F02-047 The scope of work includes D&D Contractor activities associated with the above-grade D&D. The work consists of 15 projects as follows:

Section 1	Project	Charge Number
1:50	Plant 2 D&D	BFDD2
2	Plant 3 D&D	BEDD3
3.	General Sump D&D	BEDDS
4.5	Plant 8 D&D	BEDD8
5	Health & Safety Building D&D	BFDDH'
6	Liquid Storage D&D	BFDDQ
To an in the	Pilot Plant D&D	BFDDP
8.	Laboratory D&D	BEDDB
9.	Administration (Includes: Electrical Complex) D&D	BFDDA
10	East Warehouse D&D	BFDDE
11.	Miscellaneous Structures D&D	BFDDM
12	Building 64/65.D&D	BFDDN
13	Plant 1, Phase II D&D	BFDD1
14 4 4	Plant's D&D	BFDD5
15. 4.4	Plant 6 D&D	BEDD6

1.4.1 BFDD2 - D&D Subcontract- Plant 2

Facility D&D will be subcontracted. The subcontractor will conduct premobilization, mobilization, Building 2A D&D, Building 2D D&D, Building 2F D&D, Building 2H D&D, and demobilization.

1) Task #1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

2) Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

3) Task #3 - Building 2A

Building 2A consists of a structural steel frame with transite panels outside walls and roof that is approximately $62 \times 382 \times 50$ ft high. The building floor is a combination of acid brick and concrete. It is a multilevel building with five levels and a penthouse. The interior of the building is divided into three Process Areas separated by transite walls defined as follows (from west to east): Digestion (including the Drum Digestion area), Extraction, and Denitration (including enriched calcining area).

4) Task #4 - Building 2D

Building 2D is a two-story building located against the north wall of Plant 2A. Its shape is irregular, measuring approximately 39 x 50 x20 feet high. The building consists of a structural steel frame with transite panels on a poured concrete base with acid brick. The interior of the building is one room with a diamond place mezzanine. Building 2D housed metal dissolution charcoal treatment operations.

5) Task #5 - Component 2F

Component 2F provided a means for uranium ores and residues to reach the digestion process. The conveyer is located on the west pad (74B) of Plant 2A and measures approximately 92 x 24 feet. The following equipment remain: drum conveyer, bucket elevator, drum dumper, screw conveyer, conveyor shed, drum dumper building, and a 20 feet deep elevator pit.

6) Task #6 - Component 2H

Component 2H housed a subgrade conveyor with approximate dimensions of 15 X 190 ft and 5 ft. deep. This component extends from the former Plant 1 Ore Silos to the Ore Refinery Plant and was used to transport milled uranium ores to the Ore Refinery Plant.

7) Task #7 - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

1.4.2 BFDD3 - D&D Subcontract- Plant 3

Facility D&D will be subcontracted. The overall scope of work includes premobilization, mobilization, Building 3B D&D, Building 3C D&D, Component 3D D&D, Building 3E D&D,

PBS-02, DEMOLITION AND DECONTAMINATION CLOSURE PLAN BASIS OF ESTIMATE 2503-PL-0010, Revision 1 September 2001

Component 3J D&D, Component 3K D&D, Building 39A D&D, Component 22E D&D, and demobilization.

1) Task #1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

2) Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

3) Task #3 - Building 3B

Building 3B (Ozone Building) is a single-level structural steel frame building. It is rectangular shaped, measuring 27'x 33'x 14' high. The building consists of a concrete floor and a structural steel frame with transite siding and roofing panels. The building is supported by a concrete foundation on grade.

4) Task #4 - Building 3C

Building 3C (Nitric Acid Recovery Tower Control House) is a single-level rectangular building measuring Approximately 26'x110'x14' high. Building 3C consists of a concrete floor and a structural steel frame with transite siding and roofing panels. The building is supported by a concrete foundation on grade.

5) Task #5 - Component 3D

Component 3D (Nitric Acid Recovery Towers) is a six-level open steel supported structure that is approximately 46'x60'x60' high. The ground floor of the structure is contained in a concrete diked area (not covered in acid brick) that is approximately 70'x108'. The upper five floors have steel decking as flooring.

6) Task #6 - Building 3E

Building 3E (Hot Raffinate Building) is a three story irregularly shaped concrete building measuring approximately 50'x90'x60' high at its greatest dimension. The building consists of cast in place concrete construction with heavy concrete walls and double pane water filled windows. The building has concrete flooring and is supported by a concrete foundation extending below and above grade elevation. The building also contains transite and a built up roof.

7) Task #7 - Component 3J

Component 3J (Combined Raffinate Tanks) is an outdoor multilevel tank farm area consisting of (17) seventeen vertical tanks measuring 39'x169"X 20' high. Beneath the tanks is a concrete pad and dike covered with acid brick. The tanks are stainless steel and the majority are covered with a cement coating. The tanks, connection piping, catwalks, and stairs are supported by structural steel members of various sizes.

8) Task #8 - Component 3K

Component 3K (Old Cooling Water Tower) formerly was a one story, redwood structure measuring approximately 30'x50'. The wooden tower has been removed, leaving at grade and below-grade structure consisting of a concrete basin and a diked pad. Some of the mechanical components remain consisting of lights, conduit, piping, valves, electrical enclosures and support steel. D&D will consist of removing the components.

9) Task #9 - Building 39A

Building 39A (Incinerator Building) is a two story square structure measuring 53'x53'x25' high. The building consists of a structural steel frame enclosed with interior and exterior transite siding along with a double layer insulation between the transite roof panels. The building is supported by a concrete foundation extending below –and above- grade level with a finished concrete floor.

10) Task #10 - Component 22E

Component 22E was used in the pumping of high-radium raffinate slurry from the Hot Raffinate Building (Building 3E) to K-65 Silos 1 and 2. Also, decant from the K-65 Silos was returned through the trench and collected in the tank located on the northwestern corner of Building 3E before being transferred for treatment.

11) Task #11 - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

1.4.3 BFDDS - D&D Subcontract- General Sump

Facility D&D will be subcontracted. The subcontractor will conduct premobilization, mobilization, Building 2B D&D, Building 2C D&D, Component 3H D&D, Component 18B D&D, Component 18D D&D, Building 18H D&D, Building 3A D&D, Building 3L D&D, miscellaneous pipes and racks D&D and demobilization.

1) Task #1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

2) Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

3) Task #3 - Building 2B

Building 2B is a two-story building comprising an older original building with a newer annex attached to the south side. It consists of a concrete first floor and metal diamond plate second floor; it was constructed with a structural steel frame and transite panels for walls and roof. The older part of 2B is approximately 39 x 43 feet and contains several tanks, transfer lines, and an electrical panel. The newer annex holds a laboratory facility to support the refinery sump and is approximately 20 x 20 feet with a concrete floor covered with floor tile on the first floor and only concrete on the second floor. The walls consist of structural steel and wall board. The ceiling on the first floor is metal decking, while the second floor has metal decking covered with fiberglass insulation.

3) Task #4 - Building 2C

Building 2C is a three-level building; the first and third levels of the building are rectangular, with dimensions 17 x 28 x 10 feet. The second level constitutes a steel silo that is 50 feet tall and 18 feet wide. Building 2C has a structural steel frame, transite siding and roofing, and a concrete foundation. Building 2C had one wet process area, bulk lime handling, which produced a lime slurry for processes in Plant 2A. Bulk lime was received in the silo a vacuum pump filled the silo with lime. The silo released the lime to the lime slaker, where water was added to create the slurry. The slurry was then transferred to the break tank for agitating and pumped to a holding tank north of Plant 2A.

5) Task #5 - Component 3H

Component 3H provided treatment of contaminated effluents from Plant 2A with magnesium oxide to precipitate uranium. The Refinery Sump is comprised of six tanks and is located outside in an acid brick containment area measuring 55×100 feet.

6) Task #6 - Component 18B

Component 18B provided treatment of contaminated site effluents other than sewage. The General Sump is comprised of 16 tanks; most of the tanks are located outside in four separate concrete containment areas. The open area that makes up Component 18B is approximately 113×116 feet.

7) Task #7 - Building 18D

Building 18D is a multi-level (six floor) building. It is irregularly shaped, measuring approximately 72 x 79 x 67 feet high and consists of a structural steel frame on a poured concrete base and floor with non-insulated, corrugated metal siding and roofing. One Process Area was identified for Building 18D; high nitrate waste waters that were collected in the BDN Surge Lagoon were mixed with methanol and fed to Building 18D. The waste waters flowed through the towers, fluidizing coal particles that had bacteria attached, decomposing, and releasing CO2 and N2 off the top of the towers.

8) <u>Task #8 - Building 18H</u>

Building 18H is a single story structure which consists of a reinforced concrete floor and steel frame, as well as metal siding and roofing. The approximate dimensions are 30 x 15 x 15 feet in height. Process effluent from the Biodenitrification Towers was received in Building 18H for further treatment through chlorination and aeration. The equipment housed in Building 18H includes electrical pumps, chlorinators, process tanks, air compressors, aerators, and a filter press. The equipment located along the southwest interior wall was controlled as a radiological contamination area.

9) Task #9 - Building 3A

Building 3A is a single story, square building measuring approximately $60 \times 60 \times 14$ feet high. Building 3A has a structural steel frame, with transite panels covering cinder block walls, and a concrete floor. The building is one room, except for office space along the east wall and two small steel-frame mezzanines. The building is currently used for offices and storage space.

10) Task #10 - Building 3L

Building 3L is a single story building measuring approximately $24 \times 91 \times 10$ feet high. It consists of a concrete floor, structural steel frame, transite siding and roof, with a cinder block room inside. The building contains electrical meters, panels, and main circuit breakers.

11) Task #11 - Miscellaneous Pipes and Racks

Miscellaneous pipes, pipe racks, and power supply, etc., remove the piping from air gap isolation points in the pipe racks and power supply from the isolation points to the buildings, and piping and pipe racks from building to building shall be removed. The pipe racks shall be removed to the top of the concrete footer and the attachment bolts shall be cut flush with the concrete.

12) Task #12 - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

1.4.4 BFDD8 - D&D Subcontract- Plant 8

Facility D&D will be subcontracted. The subcontractor will conduct premobilization, mobilization, Building 8A D&D, Building 8B D&D, Building 8C D&D, Building 8D D&D, Component 8E D&D, Component 8G D&D, Component 8H D&D and demobilization.

1) Task #1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

2) Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

3) Task #3 - Building 8A

Building 8A, the Recovery Plant, is a two-story structure measuring 239 x 280 ft. and 37 ft. high. The building consists of a structural steel frame on a reinforced poured concrete foundation, reinforced concrete ground floors, transite interior and exterior siding panels (insulation material between panels), and transite roof panels. The second floor is primarily steel grating with some concrete flooring.

4) Task #4 - Building 8B

Building 8B, the Plant 8 Maintenance Building, is a single-story structure measuring 31 x 42 ft. and 15 ft. high. Building 8B consists of cinder block walls supported on reinforced concrete footings, with a reinforced-poured concrete floor and glass windows.

5) Task #5 - Building 8C

Building 8C, the Rotary Kiln/Drum Reconditioning Building, is a four-story steel structure with steel siding. The structure was built on a reinforced concrete pad. The dimensions of 8C are 50×100 feet x 50 feet in height. Building 8C was never used due to production suspension and is not expected to contain ACM, acid brick, or significant levels of contamination.

6) Task #6 - Building 8D

Building 8D is a single-level building measuring 30 \times 42 ft. and 13 ft. high. Associated with 8D are a below-grade railroad tank car wash pit and a settling basin. Building 8D is a pre-engineered structure consisting of a structural steel frame with steel siding panels and a sloped steel roof panels. The building is supported on a reinforced poured concrete base.

7) Task #7 - Component 8E

Component 8E is a single-level structure with a structural steel frame and sloped metal roof. It is an extension of the Rotary Kiln/Drum Reconditioning Building (8C). The shelter is 15 feet in height, and shelters an area of reinforced poured concrete that is 40 ft. in length x 15 ft. in width.

R1-F02-013

8) Task #8 = Component 8G

Building 8G, the trash compactor building is a multistory structure measuring. ft. x ft. x ft. x ft. high. The building consists of a structural steel frame on a reinforced concrete foundation.

R1-F02-013

8 9 Task #8 9 - Component 8H

This component is a single-story room on the west end of Building 8C.

R1-F02-013

9 10) Task #9 10 - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing

- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

R1-F02-047

1.4.5 BFDDH - D&D Subcontract- Health and Safety Building

Facility D&D of the Administration Complex will be subcontracted. The overall scope of work includes premobilization, mobilization, Building 53A D&D, and demobilization.

1) Task#1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities:

2) - Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation:

3) Task #3 - Building 53A

Building 53A is a multilevel building measuring approximately 89 x 221 ft. and 22 ft. high, with two floors and a partial basement under the west section. The building consists of cement block construction on reinforced poured concrete footers and floors, flat reinforced poured concrete roofs, and glass windows.

4) Task #4 Demobilization

Demobilization includes the following activities:

Decontaminate equipment (heavy equipment)

Remove temporary feneric

Remove aspestos trailer, tool trailer, office trailer, temporary offices

Complete nunchlist items. Trim rebar, grout remaining openings, gravel open areas, plean up debus

1.4.6 BFDDQ - D&D Subcontract- Liquid Storage

Facility D&D will be subcontracted. The overall scope of work includes premobilization, mobilization, Building 26A D&D, Component 26B D&D, Building 28D D&D, Building 45A D&D, Building 80 D&D, and demobilization.

1) Task #1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

2) Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

3) Task #3 - Building 26A

Building 26A is located south of the Elevated Water Storage Tank (26B). Component 26A is comprised of a steel water storage tank and cement block wall and concrete floor building. The dimensions of the tank are 35 feet in diameter by 22 feet in height. The volume capacity of the tank is approximately 300,000 gallons. The dimensions of the building are $26 \times 50 \times 11$ feet in height.

4) Task #4 - Component 26B

Component 26B is located north of the Pump House-HP Fire Protection (26A). Component 26B is a steel water storage tank elevated by steel supports to 265 feet above grade. The tank has a diameter of 65 feet, and a capacity of approximately 350,000 gallons.

5) Task #5 - Building 28D

Building 28D is a square building located at the west end of 2^{nd} Street. The dimensions of the building are 15 x 15 feet. Building 28D is constructed of wood framing and siding.

6) Task #6 - Building 45A

Building 45A is a single-story building. It is rectangular shaped, measuring 121×150 ft and 14 ft high. The building consists of a structural steel frame with corrugated metal siding and a poured concrete base and floor. Building 45A was decontaminated in 1988, before conversion for office space, but still has high levels of fixed contamination in the rafters, as well as some ACM piping.

7) Task #7 - Building 80

Building 80 is a single story building approximately 60 X 170 ft. and 15 ft. high, consists of a structural steel frame on a reinforced poured concrete base and floor with noninsulated corrugated metal siding and roofing. Building 80 was constructed for the storage of non-liquid RCRA hazardous waste and is recognized as HWMU #29.

PBS-02, DEMOLITION AND DECONTAMINATION
CLOSURE PLAN BASIS OF ESTIMATE
2503-PL-0010, Revision 1
September 2001

RCRA CERCLA Intrgrated Closure of HWMU #29 requires at least rinsing and rinseate sampling during the decontamination stage of D&D. Additional decontamination of Building 80 is not anticipated.

8) Task #8 - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

1.4.7 BFDDP - D&D Subcontract- Pilot Plant

Facility D&D will be subcontracted. The overall scope of work includes premobilization, mobilization, Building 13A D&D, Building 13B D&D, Building 13C D&D, Component 13D D&D, Building 37 D&D, Building 54A D&D, Building 54B D&D, Building 54C D&D, and demobilization.

1) Task #1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

2) Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

3) Task #3 - Building 13A

Building 13A is a multilevel processing facility with the dimensions 63×155 ft. 80% of the building is 35 ft. high; the southern 20% of the building, where the solvent extraction process was located, is 53 ft. high. The building is constructed of cement block on poured reinforced concrete floors, reinforced concrete roof, a building shell consisting of interior and exterior transite siding, and large multi-pane windows. The mezzanine floor, of reinforce poured concrete, is supported by a structural steel frame.

Building 13A houses tanks, columns, filters, ovens, size reduction equipment and associated piping, conduit, duct and appurtenances. ACM insulation covers most of the buildings piping.

PBS-02, DEMOLITION AND DECONTAMINATION
CLOSURE PLAN BASIS OF ESTIMATE
2503-PL-0010, Revision 1
September 2001

There is a dust collector which serviced Building 13A. This dust collector resides at the northwest corner of 13A and just to the south of 13B. The dust collector is supported by a structural steel frame and anchored in concrete. The collector will be contained and removed and the structural steel will be dismantled by shearing.

Due to anticipated elevated air activity, Powered Air Purifying Respirators (PAPRs) will be worn during various parts of the building D&D. Prior to any activity in the building, a temporary air change unit (with HEPA and activated carbon filtration) will be installed to lower thoron readings during interior equipment removal, acid brick removal, and scabbling.

4) Task #4 - Component 13B

Building 13B is a single-level structure measuring 30×60 ft. and 11 ft. high. The building consists of concrete block walls supported on reinforced concrete footings, with a reinforced poured concrete floor and roof, and glass windows.

The maintenance building has two offices which are located in the building on the south side. These offices are partitioned by pre-fabricated wall panel walls, and contain dropped ceilings. The remainder of the building has exposed concrete floors and exposed roof deck above.

5) Task #5 - Building 13C

Building 13C consists of a single-level, high concrete block (masonry) wall structure, 12×16 ft. and 8 ft. high, supported on reinforced concrete foundations. The building has a reinforced concrete floor and a sloping shingled roof. It contains three pumps on concrete pedestals.

Four sump tanks off of the south wall are associated with the structure. The tanks and all associated piping will be removed; the containment berm will be left in place for removal during soil and below-grade excavation.

6) Task #6 - Component 13D

Component 13D is an aboveground storage tank farm. The tank farm consists of five vertical cylindrical steel tanks inside a rectangular concrete containment area measuring 28 x 45 ft. with a wall height of 18 in. aboveground. Two of the five tanks are considered to be HWMUs because of the storage of thorium nitrate tetrahydrate liquid.

The tanks will be flushed with water and the rinseate sampled until the analysis indicates the tanks are no longer RCRA-hazardous. The storage tanks and any associated piping will then be dismantled and size reduced utilizing an oxy-acetylene torch. The containment berm will be left in place for removal during soil and below-grade excavation. All other debris will be containerized for OSDF disposal.

7) Task #7 - Building 37

Building 37 is a single-story building measuring 52×122 ft. and 25 ft. high. The building consists of a structural steel frame anchored in a reinforced concrete foundation and a reinforced concrete floor and roof, cement block walls, and glass windows. The building is connected to the east side of Building 54A. The function of Building 37 was to test out new processes for uranium and thorium production and recovery. Due to these processes, unexpected chemicals may be present.

8) Task #8 - Building 54A

Building 54A is an irregularly shaped building with dimensions 165 \times 123 ft. and 44 ft. high. It shares an entire western wall with Building 13A and its eastern wall with Building 37. The building has several distinct parts; the various parts of the overall building contain different types of construction materials

The 61 x 81 ft. main processing area (also known as Building 54A North) consists of a structural steel frame on a reinforce concrete base, reinforced poured concrete floor, transite siding panels, and glass windows.

A transformer room and utility room are attached to the north wall of the main processing area. A mechanical room, a hallway, and a power generator room are attached to the east wall of the main processing area. A control room, electrical room, and battery room are attached to the south wall of the main processing area.

The autoclave section, the southern portion of Building 54A, consists of a structural steel frame on poured reinforced concrete base with poured reinforced concrete floor, steel siding panels, and a sloped steel roof. The roof is of composite construction, having a corrugated steel deck covered with rigid insulation and five-ply built-up roofing. There are three autoclaves that contain asbestos insulation.

Due to anticipated elevated air activity, PAPRs will be worn up to and including the release cleaning phase of building D&D.

9) Task #9 - Building 54B

Building 54B is a single-level building. The shelter is rectangular and has a steel frame structure 50 x 74 ft. and 10 ft. high, with a reinforced concrete foundation and floor and a metal roof. The lower panels of the shelter are steel while the upper panels in the roof gables are transite. Building 54B stored Pilot Plant materials such as uranium tetrafluoride.

10) Task #10 - Building 54C

Building 54C is constructed of a structural steel frame supported on a reinforced poured concrete base, corrugated aluminum siding, and metal roof. The building has an aluminum

PBS-02, DEMOLITION AND DECONTAMINATION CLOSURE PLAN BASIS OF ESTIMATE 2503-PL-0010, Revision 1 September 2001

canopy that shelters the east side from the weather. The dimensions of the building are 20×48 ft. and 19 ft. high.

Building 54C houses three ammonia dissociators, associated equipment, piping, conduit, and other necessary appurtenances. A steel stairway on the west face of Building 54C, which services the second floor of Building 13A, will be removed as part of Building 54C.

11) Task #11 - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- · Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

1.4.8 BFDDB - D&D Subcontract- Laboratory

Facility D&D will be subcontracted. The overall scope of work includes premobilization, mobilization, Building 15A D&D, Building 15B D&D, Building 15C D&D, and demobilization.

1) Task #1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

2) Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

3) Task #3 - Building 15A

Building 15A has historically housed the analytical and chemical process laboratories for the FEMP. Building 15A is a multilevel, irregularly shaped building constructed of concrete block walls and concrete floors. The dimensions of the building are 253 x 292 feet and 20 feet high. The main floor of the building is composed of north, central, south, and east/west corridors. Courtyards are located between the south and central corridors and between the central and north corridors. A basement area is located beneath the western portion of the building. Piping access tunnels, which are accessible through access ways located in the first floor east corridor, run at basement level below the north and central corridors and join the basement on the west. A laboratory sump is located in the north

PBS-02, DEMOLITION AND DECONTAMINATION CLOSURE PLAN BASIS OF ESTIMATE 2503-PL-0010, Revision 1 September 2001

courtyard. The Laboratory Building has been renovated which extended the northern portion and added a second story over the northern portion extension.

4) Task #4 - Building 15B

Building 15B is a 30 \times 20 \times 12 feet concrete block building used for the laboratory chemical storage.

5) Task #5 - Building 15C

Building 15C is a small room that is contained within the structure of the Laboratory (Building 15A) and will, therefore, be dismantled as a part of Building 15A.

6) Task #6 - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

1.4.9 BFDDA - D&D Subcontract - Administration

Facility D&D of the Administration Complex will be subcontracted. The overall scope of work includes premobilization, mobilization, Building 11 D&D, Building 14A D&D, Component 14B D&D, Component 20K D&D, Building 53B D&D, Building 31A D&D, Building 46 D&D, and demobilization.

1) Task #1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

2) Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

3) Task #3 - Building 11

Building 11 is a two-story structure that measures approximately 230 x 322 ft. and 30 ft. high. Building 11 consists of cinder block construction on reinforced poured concrete footers with reinforced poured concrete floors, glass windows, and a flat reinforced poured concrete roof.

4) Task #4 - Building 14A

Building 14A is an irregularly shaped two-level structure measuring 143 \times 240 ft. and 24 ft. high. Building 14A is constructed of cinder block walls supported on reinforced concrete footers with poured concrete floors. The building comprises a central hallway with east and west wings, and a partial basement is located under the west wing.

5) Task #5 - Building 14B

Component 14B is a diesel powered electrical generator located near the northwest corner of the Administration Building (14A). The component contains a diesel-powered engine, a diesel fuel tank, an electrical generator and a cement dike built under and around the diesel fuel tank.

6) Task #6 - Component 20K

Component 20K consists if two (2) cooling towers that are constructed out of galvanized steel, one pump house skid which contains three (3) pumps and a control room. The piping is plastic and carbon steel. The system ties into the existing chilled water system and DW system.

7) <u>Task #7 – Building 53B</u>

Building 53B consists of a cement block wall and concrete floor construction with the approximate dimensions of 36 x 72 ft. and 15 ft. high. Building 53B is a radiologically shielded structure housing highly sensitive radiation detection equipment. The facility is utilized to obtain internal radiation measurements of on-site employees. The measurements are generally for uranium content of the lungs.

R1-F02-047

Task #8 – Building 46

Building 46 stores forklifts, trucks, and other heavy equipment and is a single-story building, approximately 220 x 59 ft. It is a pre-engineered facility consisting of a structural steel frame on a reinforced poured concrete base, sloped steel roof panels, concrete/masonry block walls, and glass windows.

R1-F02-047

Task #9 = Building 31A

The Engine House/Garage contained HWMU No.3 for which OEPA Closure Certification Acceptance was received on June 6, 1996. The garage performs repair work and preventative maintenance on the vehicles. Spills, which occur on the concrete floor are cleaned with a floor scrubber. A sewer system in the building collects the water from the floor, which is sampled before disposition to the AWWT. The building is single-story cinder block with a sloped steel panel roof (with structural supports) and concrete floor. Three aboveground fuel tanks are also included with the building.

10) Task #10 - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

1.4.10 BFDDE - D&D Subcontract- East Warehouse

Facility D&D of the East Warehouse Complex will be subcontracted. The overall scope of work includes premobilization, mobilization, Component 20D D&D, Building 77 D&D, Building 79 D&D, Building 82A D&D, and demobilization.

1) Task #1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

2) Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

3) Task #3 - Component 20D

Component 20D (Elevated Potable Water Storage Tank) is a steel 21,000 gallon water storage tank with six structural steel columns and a center stand pipe on concrete footings measuring 100 feet high. The tank portion is cylindrically shaped, measuring approximately 30 feet in diameter and 40 feet tall. There is an approximate 8'x8'x8' transite pump house at the base of the water tank.

4) Task #4 - Building 77

Building 77 (Finished Products Warehouse) is a single-level rectangular building measuring Approximately 120'x 162'x 12' high. Building 77 consists of a concrete floor and a structural steel frame with metal siding and roofing panels. The building is supported by a concrete foundation on grade.

5) Task #5 - Building 79

Building 79 (Plant 6 Warehouse) is a single-level rectangular building measuring Approximately 100'x170'x15' high. Building 79 consists of a concrete floor and a structural steel frame with metal siding and roofing panels. The building is supported by a concrete foundation on grade. The small break room trailer inside Building 79 is assumed to be removed by the facility owner prior to D&D activities.

6) Task #6 - Building 82A

Building 82A (Receiving/Incoming Materials Inspection Area Building) is a single-level rectangular building measuring Approximately 100'x100'x17' high. Building 82A consists of a concrete floor and a structural steel frame with metal siding and roofing panels. The building has interior cinderblock walls. The building is supported by a concrete foundation on grade.

7) Task #7 - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

1.4.11 BFDDM - D&D Subcontract- Miscellaneous Structures

Facility D&D will be subcontracted to either the Sole Source D&D Contractor or the Labor Hour Contractor on a task by task basis. The overall scope of each task includes premobilization, mobilization, D&D, and demobilization for each of the structures identified in Table 1.

1) Task #1 - Component 5F (Plant 5 Covered Storage Pad)

Component 5F is a pre-engineered metal structure 80 X 100 X 30 feet.

2) Task #2 - Component 12E (Maintenance Storage Shed)

Component 12E is a single story pre-engineered metal structure 20 X 20 X12 feet.

3) Task #3 – Component 12F (Maintenance Storage Shed)

Component 12F is a single story pre-engineered metal structure 20 X 20 X 12 feet.

4) Task #4 - Building 12G (Restored Area Maintenance Building)

Building 12G is a single story pre-engineered metal structure 20 X 20 X 12 feet.

5) Task #5 - Component 16B (Electrical Substation)

Component 16B is a cinder block building with a concrete floor and metal sheet roof measuring 20 x 40 ft. Component 16B contains electrical meters, panels and main circuit breakers. Component 16B is a secondary unit substation that receives 13.2 kV and transforms it down to 480V to power the Health and Safety Building, Security Building, Human Resources Building and east trailers.

6) Task #6 - Component 16C (Electrical Panels and Transformer)

Component 16C is a wooden, two-sided structure on a concrete pad that is approximately 4×20 ft. Component 16C shelters a transformer and electrical meter. Component 16C was used as a secondary unit substation that received 480 V and transformed it down to 208 V to provide electrical power to the east trailers.

7) Task #7 – Component 16F (Trailer Substation #1)

Component 16F is a concrete pad, 4×20 ft. with a small fiberglass enclosure for a transformer, main circuit breaker, fuse disconnect and electrical meters. Component 16F is a power distribution point that receives 480 V from the Electrical Substation and transforms it to 208 V to power local office trailers.

8) Task #8 – Component 16G (Trailer Substation #2)

Component 16G is a 4×20 ft. concrete pad with a small fiberglass enclosure for a transformer, main circuit breaker, fuse disconnect and electrical meters. Component 16G is a power distribution point that receives 480 V from the Electrical Substation and transforms it to 208 V to power the local office trailers.

9) Task #9 - Component 20E (Well House #1)

Component 20E (Well House #1) is a single story structure consisting of a cement block wall with a concrete floor and dimensions of 11 x 20 x 9 ft. high. Component 20E is one of three on-site pumping stations that supply the process area with water for fire protection and other potable uses. Component 20E houses one electrical water pump and accompanying equipment.

10) Task #10 – Component 20F (Well House #2)

Component 20F (Well House #2) is a single story structure consisting of a cement block wall with a concrete floor and dimensions of $11 \times 20 \times 9$ ft. high. Component 20F is one of three on-site pumping stations that supply the process area with water for fire protection and other potable uses. Component 20F houses one electrical water pump and accompanying equipment.

11) Task #11 – Component 20G (Well House #3)

Component 20F (Well House #2) is a single story structure consisting of a cement block wall with a concrete floor and dimensions of $11 \times 20 \times 9$ ft. high. Component 20F is one of three on-site pumping stations that supply the process area with water for fire protection and other potable uses. Component 20F houses one electrical water pump and accompanying equipment.

12) Task #12 - Component 22B (Storm Sewer Lift Station)

Component 22B is a single story structure with cement block walls and concrete floor. Component 22B dimensions are $10 \times 16 \times 8$ ft. Component 22B is utilized to pump accumulated site stormwater off-site to the Great Miami River.

13) Task #13 - Component 22D (Scale House and Weigh Scale)

Component 22D is a metal framed transite sided structure approximately 6 X 8 X 8 feet.

14) Task #14 – Component 23 (Meteorological Tower)

The Meteorological Tower is a steel structure located west of the Storm Water Retention Basin (18E). The tower holds climate monitoring instruments used to measure the day-to-day meteorological conditions of the surrounding area, to detect severe weather conditions, and to gather data to support the development of air dispersion models for the Emergency Operations Center in the event of an off-site airborne release.

15) Task #15 - Component 25C (Sewer Lift Station Building)

Component 25C (Sewage Lift Station Building) is a single story structure consisting of cement block walls on a reinforced concrete floor and dimensions of $15 \times 20 \times 9$ ft. high. Component 25C pumped accumulated sanitary wastes from the site to the Sewage Treatment Plant. The treated effluent is subsequently released to the Great Miami River

16) Task #16 - Component 26C (Main Electrical Substation Riser/Strainer House)

Component 26C (Main Electrical Strainer House) is a cinder block building with a partial concrete floor, transite roof and dimensions of $10 \times 12 \times 10$ ft. high. Component 26C contains the control valves for the main electrical deluge fire protection system, which provides fire sprinkler protection for the Main Electrical Station.

17) Task #17 - Buildings 28E (Guard Post at OSDF South Entrance)

Component 28E is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

18) Task #18 - Building 28G (Guard Post NW of Building 45)

Component 28G is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

19) Task #19 - Building 28H (Guard Post South of K-65 Area)

Component 28H is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

20) Task #20 - Building 28J (Security Checkpoint - South Access Road)

Component 28J is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

21) Task #21 - Building 28K (Security Checkpoint - E. Parking Lot)

Component 28K is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

22) Task #22 - Building 28L (Guard Post - N. Construction Access Road)

Component 28L is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

23) Task #23 - Building 28M (Guard Post on "F" Street)

Component 28M is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

24) Task #24 - Building 30D (Sampling Line Processing)

Building 30D is located inside Building 30A.

25) Task #25 – Building 50 (Maintenance Storage Building)

Building 50 is a pre-engineered metal building 23 X 30 X 16 feet.

26) Task #26 - Building 52A (RTRAK Building)

Building 52A is a single story pre-engineered metal structure 20 X 20 X12 feet.

27) Task #27 – Building 52B (ASTD SCEP Building)

Building 52B is a pre-engineered metal building 23 X 30 X 16 feet.

28) Task #28 – Building 60 (Quonset Hut #1)

Building 60 is a single-story shelter, pre-engineered facility consisting of a structural steel frame on a reinforced poured concrete base with sloped steel roof panels, steel siding panels and glass windows. The facility has approximated dimensions of 41 X 60 X 20 feet high.

29) Task #29 - Building 61 (Quonset Hut #2)

Building 61 is a single-story shelter, pre-engineered facility consisting of a structural steel frame on a reinforced poured concrete base with sloped steel roof panels and steel siding panels. The facility has approximated dimensions of 41 X 60 X 20 feet high.

30) Task #30 - Building 62 (Quonset Hut #3)

Building 62 is a single-story shelter, pre-engineered facility consisting of a structural steel frame on a reinforced poured concrete base with sloped steel roof panels and steel siding panels. The facility has approximated dimensions of 41 X 60 X 20 feet high.

31) Task #31 - Building 68 (Pilot Plant Warehouse)

Building 68 is a metal framed building with metal siding and a metal roof 30 X 60 X 20 feet.

32) Task #32 - Building 93A (Southwest Boiler House)

Building 93A is a pre-engineered metal framed and metal sided building housing three (3) gas fired boilers 36 X 48 X 20 feet.

33) Task #33 - Component G-008 (Pipe Bridges)

Remove miscellaneous pipes, pipe racks, conduit, and power supply, etc., remove the piping from air gap isolation points in the pipe racks and power supply from the isolation points to the buildings, and piping and pipe racks from building to building shall be removed. The pipe racks shall be removed to the top of the concrete footer and the attachment bolts shall be cut flush with the concrete.

34) Task #34 - Building TS-08 (Environ. Monitor. Equip. Storage)

Component TS-08 is a steel tube framed structure enclosed within a synthetic covering. It is assumed that this structures will not be salvaged, but dismantled and sized for placement in the OSDF.

35) <u>Task #35 – Trailer T1 (FF)</u>

Trailer T1 is a 5-Plex trailer that measures 71 X 56 feet.

36) Task #36 - Trailer T2 (Rad Safety)

Trailer T2 is a single wide that measures 36 X 10 feet.

37) Task #37 - Trailer T3 (Wise Construction)

Trailer T3 is a single wide that measures 36 X 10 feet.

38) Task #38 - Trailer T4 (Multimedia Visual Storage)

Trailer T4 is a single wide that measures 36 X 10 feet.

39) Task #39 - Trailer T5 (FF Construction)

Trailer T5 is a single wide that measures 36 X 10 feet.

40) Task #40 - Trailer T6 (Restrooms)

Trailer T6 is a single wide that measures 36 X 10 feet.

41) Task #41 - Trailer T7 (FF)

Trailer T7 is a single wide that measures 46 X 10 feet.

42) Task #42 - Trailer T8 (Wise Construction)

Trailer T8 is a single wide that measures 44 X 10 feet.

43) Task #43 - Trailer T12 (CRU4-DLS)

Trailer T12 is a single wide that measures 10 X 30 feet.

44) Task #44 - Trailer T17 (FF)

Trailer T17 is a single wide that measures 44 X 10 feet.

45) Task #45 - Trailer T18 (Break Trailer)

Trailer T18 is a double wide that measures 56 X 24 feet.

46) Task #46 - Trailer T19 (Rad Safety)

Trailer T19 is a single wide that measures 12 X 60 feet.

47) Task #47 - Trailer T23 (10 Plex)

Trailer T23 is a 10 Plex that measures 118 X 56 feet.

48) <u>Task #48 – Trailer T24 (7 Plex – North)</u>

Trailer T24 is a 7 Plex that measures 82.5 X 56 feet.

49) <u>Task #49 – Trailer T25 (7 Plex – South)</u>

Trailer T25 is a 7 Plex that measures 82.5 X 56 feet.

50) Task #50 - Trailer T26 (Waste Management)

Trailer T26 is a single wide that measures 12 X 60 feet.

51) Task #51 – Trailer T29 (Computer)

Trailer T29 is a single wide that measures 66 X 14 feet.

52) Task #52 - Trailer T30 (Computer)

Trailer T30 is a single wide that measures 66 X 14 feet.

53) Task #53 – Trailer T33 (Shipping Office)

Trailer T33 is a single wide that measures 56 X 12 feet.

54) Task #54 - Trailer T34 (FF)

Trailer T34 is a single wide that measures 8 X 12 feet.

55) <u>Task #55 – Trailer T35 (FF)</u>

Trailer T35 is a double wide that measures 66 X 24 feet.

56) Task #56 - Trailer T36 (Heavy Equipment Operators)

Trailer T36 is a single wide that measures 8 X 30 feet.

57) Task #57 - Trailer T40 (Thorium Overpack)

Trailer T40 is a single wide that measures 8 X 26 feet.

58) Task #58 - Trailer T41 (Waste Certification - QA)

Trailer T41 is a single wide that measures 12 X 60 feet.

59) Task #59 - Trailer T42 (Respirator Washing Facility)

Trailer T42 is a single wide that measures 45 X 8 feet.

60) Task #60 - Trailer T43 (Restoration)

Trailer T43 is a double wide that measures 56 X 24 feet.

61) Task #61 - Trailer T44 (FF Maintenance)

Trailer T44 is a double wide that measures 56 X 24 feet.

62) Task #62 - Trailer T45 (Environmental Monitoring)

Trailer T45 is a double wide that measures 56 X 24 feet.

63) Task #63 - Trailer T46 (Environmental Monitoring)

Trailer T46 is a double wide that measures 56 X 24 feet.

64) Task #64 - Trailer T49 (Bio-Assay Semi-Trailer)

Trailer T49 is a single wide that measures 56 X 8 feet.

65) Task #65 - Trailer T50 (Rad Safety)

Trailer T50 is a single wide that measures 10 X 16 feet.

66) Task #66 - Trailer T57 (Rad Safety)

Trailer T57 is a double wide that measures 70 X 28 feet.

67) Task #67 – Trailer T58 (Construction Office)

Trailer T58 is a double wide that measures 70 X 28 feet.

68) Task #68 – Trailer T59 (FF Waste Management)

Trailer T59 is a single wide that measures 36 X 10 feet.

69) Task #69 - Trailer T60 (Environmental Monitoring)

Trailer T60 is a single wide that measures 8 X 20 feet.

70) Task #70 - Trailer T61 (Startup Group)

Trailer T61 is a single wide that measures 56 X 12 feet.

71) Task #71 – Trailer T62 (Startup Group)

Trailer T62 is a single wide that measures 50 X 12 feet.

72) Task #72 - Trailer T65 (Plant 1 Pad MC&A Office)

Trailer T65 is a single wide that measures 8 X 10 feet.

73) Task #73 – Trailer T66 (RIMIA Tri-Plex)

Trailer T66 is a Tri-Plex that measures 66 X 42 feet.

74) <u>Task #74 – Trailer T67 (Rad. Tech.)</u>

Trailer T67 is a single wide that measures 8 X 20 feet.

75) Task #75 - Trailer T68 (CRU1 Office)

Trailer T68 is a single wide that measures 10 X 60 feet.

76) Task #76 - Trailer T69 (Control Point - RIMIA)

Trailer T69 is a single wide that measures 10 X 20 feet.

77) Task #77 – Trailer T71 (Safe Shutdown)

Trailer T71 is a single wide that measures 56 X 12 feet.

78) Task #78 – Trailer T72 (Safe Shutdown)

Trailer T72 is a single wide that measures 50 X 12 feet.

79) Task #79 – Trailer T74 (ARASA Changeout Facility)

Trailer T74 is a Quad-Plex that measures 60 X 56 feet.

80) Task #80 - Trailer T75 (Multimedia Services)

Trailer T75 is a single wide that measures 60.5 X 12 feet.

81) Task #81 - Trailer T82 (Capital Project)

Trailer T82 is a double wide that measures 66 X 28 feet.

82) Task #82 - Trailer T83 (Capital Project)

Trailer T83 is a double wide that measures 66 X 28 feet.

83) Task #83 - Trailer T84 (Capital Project)

Trailer T84 is a double wide that measures 66 X 27.5 feet.

84) Task #84 - Trailer T85 (Capital Project)

Trailer T85 is a double wide that measures 66 X 27.5 feet.

85) Task #85 - Trailer T86 (Capital Project)

Trailer T86 is a double wide that measures 66 X 27.5 feet.

86) Task #86 - Trailer T87 (Capital Project)

Trailer T87 is a double wide that measures 66 X 27.5 feet.

87) Task #87 - Trailer T89 (WPA Men's Changeout)

Trailer T89 is a single wide that measures 56 X 14 feet.

88) Task #88 - Trailer T90 (WPA Women's Changeout)

Trailer T90 is a single wide that measures 56 X 14 feet.

89) Task #89 - Trailer T91 (WPA Men's Changeout)

Trailer T91 is a single wide that measures 56 X 14 feet.

90) Task #90 - Trailer T92 (WPA Breakroom)

Trailer T92 is a single wide that measures 56 X 14 feet.

91) Task #91 - Trailer T93 (Radiation Control Unit Quad)

Trailer T93 is a Quad-Plex that measures 60 X 56 feet.

92) Task #92 - Trailer T94 (Radiation Control Unit Quad)

Trailer T94 is a Quad-Plex that measures 60 X 56 feet.

93) Task #93 - Trailer T95 (Radiation Control Unit Quad)

Trailer T95 is a Quad-Plex that measures 60 X 56 feet.

94) Task #94 - Trailer T96 (Radiation Control)

Trailer T96 is a double wide that measures 60 X 28 feet.

95) Task #95 - Trailer T97 (FF Office - CRU4)

Trailer T97 is a single wide that measures 36 X 10 feet.

96) Task #96 - Trailer T98 (OSDF)

Trailer T98 is a single wide that measures 60 X 14 feet.

97) <u>Task #97 – Trailer T100 (FF Office)</u>

Trailer T100 is a single wide that measures 10 X 20 feet.

98) Task #98 - Trailer T103 (Storage)

Trailer T103 is a single wide that measures 10 X 12 feet.

99) <u>Task #99 – Trailer T108 (IAWWTF)</u>

Trailer T108 is a single wide that measures 56 X 12 feet.

100) <u>Task #100 – Trailer T109 (IAWWTF)</u>

Trailer T109 is a single wide that measures 56 X 12 feet.

101) Task #101 - Trailer T117 (CRU4 Construction Support Office)

Trailer T117 is a double wide that measures 24 X 66 feet.

102) Task #102 - Trailer T118 (CRU4 Support Office)

Trailer T118 is a single wide that measures 10 X 42 feet.

103) Task #103 - Trailer T119 (Restrooms)

Trailer T119 is a single wide that measures 46 X 10 feet.

104) <u>Task #104 – Trailer T121 (FF Office)</u>

Trailer T121 is a single wide that measures 14 X 74 feet.

105) <u>Task #105 – Trailer T122 (Storage)</u>

Trailer T122 is a single wide that measures 8 X 40 feet.

106) Task #106 - Trailer T127 (OEPA - Part of T68)

Trailer T127 is a double wide that measures 24 X 70 feet.

107) Task #107 - Trailer T128 (Mixed Waste)

Trailer T128 is a double wide that measures 25 X 60 feet.

108) Task #108 - Trailer T129 (OEPA - Part of T68)

Trailer T129 is a double wide that measures 24 X 60 feet.

109) Task #109 - Trailer T130 (Breakroom)

Trailer T130 is a double wide that measures 26 X 60 feet.

110) Task #110 - Trailer T131 (Breakroom)

Trailer T131 is a double wide that measures 26 X 60 feet.

111) Task #111 - Trailer T132 (Kelchner Office)

Trailer T132 is a single wide that measures 10 X 50 feet.

112) Task #112 - Trailer T135 (Boiler Maintenance)

Trailer T135 is a single wide that measures 14 X 56 feet.

113) Task #113 - Trailer T138 (Southern Waste Unit Site Prep. Group)

Trailer T138 is a double wide that measures 28 X 70 feet.

114) Task #114 - Trailer T139 (Southern Waste Unit Site Prep. Group)

Trailer T139 is a double wide that measures 28 X 70 feet.

115) Task #115 - Trailer T141 (Maintenance Storage)

Trailer T141 is a single wide that measures 8 X 32 feet.

116) Task #116 - Trailer T142 (Maintenance Storage)

Trailer T142 is a single wide that measures 39.5 X 8 feet.

117) Task #117 - Trailer T164 (FF Training)

Trailer T164 is a double wide that measures 24 X 60 feet.

118) Task #118 - Trailer T165 (FF Training)

Trailer T165 is a double wide that measures 24 X 60 feet.

119) Task #119 - Trailer T166 (Industrial Relations)

Trailer T166 is a double wide that measures 24 X 60 feet.

120) Task #120 - Trailer T167 (Industrial Relations)

Trailer T167 is a double wide that measures 24 X 60 feet.

121) Task #121 - Trailer T168 (ARASA Contractor)

Trailer T168 is a double wide that measures 24 X 60 feet.

122) Task #122 - Trailer T169 (ARASA Contractor)

Trailer T169 is a double wide that measures 24 X 60 feet.

123) Task #123 - Trailer T170 (ARASA Contractor)

Trailer T170 is a double wide that measures 24 X 60 feet.

124) Task #124 - Trailer T171 (ARASA Contractor)

Trailer T171 is a double wide that measures 24 X 60 feet.

125) Task #125 - Trailer T172 (FCNDP)

Trailer T172 is a double wide that measures 24 X 60 feet.

126) Task #126 - Trailer T173 (FCNDP)

Trailer T173 is a double wide that measures 24 X 60 feet.

127) Task #127 - Trailer T174 (FCNDP)

Trailer T174 is a double wide that measures 24 X 60 feet.

128) Task #128 - Trailer T175 (FCNDP)

Trailer T175 is a double wide that measures 24 X 60 feet.

129) Task #129 - Trailer T176 (FCNDP)

Trailer T176 is a double wide that measures 24 X 60 feet.

130) Task #130 - Trailer T177 (FCNDP)

Trailer T177 is a double wide that measures 24 X 60 feet.

131) Task #131 - Trailer T178 (FCNDP)

Trailer T178 is a double wide that measures 24 X 60 feet.

132) Task #132 - Trailer T179 (FCNDP)

Trailer T179 is a double wide that measures 24 X 60 feet.

133) Task #133 - Trailer T181 (FF Office)

Trailer T181 is a double wide that measures 24 X 60 feet.

134) Task #134 - Trailer T182 (FF Office)

Trailer T182 is a double wide that measures 24 X 60 feet.

135) Task #135 - Trailer T183 (FF Office)

Trailer T183 is a double wide that measures 24 X 60 feet.

136) Task #136 - Trailer T186 (OSDF Office Trailer)

Trailer T186 is a single wide that measures 10 X 10 feet.

137) Task #137 - Trailer T191 (Breakroom/Cooldown)

Trailer T191 is a single wide that measures 10 X 32 feet.

138) Task #138 - Trailer T301 (IT Corp.)

Trailer T301 is a single wide that measures 10 X 40 feet.

139) Task #139 - Trailer T305 (Environmental Monitoring)

Trailer T305 is a double wide that measures 24 X 48 feet.

140) Task #140 - Trailer T306 (Environmental Monitoring)

Trailer T306 is a single wide that measures 8 X 40 feet.

141) Task #141 - Trailer T312 (Cell 1 Personal Cool Down)

Trailer T312 is a single wide that measures 8 X 20 feet.

142) Task #142 - Trailer T313 (ARASA Admin. Office "A")

Trailer T313 is a Tri-Plex that measures 42 X 76 feet.

143) Task #143 - Trailer T314 (ARASA Admin. Office "B")

Trailer T314 is a Tri-Plex that measures 42 X 76 feet.

144) Task #144 - Trailer T315 (ARASA Laboratory Office)

Trailer T315 is a single wide that measures 10 X 50 feet.

145) Task #145 - Trailer T316 (ARASA Laboratory "A")

Trailer T316 is a single wide that measures 12 X 50 feet.

146) Task #146 - Trailer T317 (ARASA Laboratory "B")

Trailer T317 is a single wide that measures 12 X 50 feet.

147) Task #147 - Trailer T318 (ARASA MHB/RCLO Pow. Mod. Bldg)

Trailer T318 is a single wide that measures 12 X 28 feet.

148) Task #148 - Trailer T319 (ARASA Breakroom)

Trailer T319 is a single wide that measures 12 X 56 feet.

149) Task #149 - Trailer T320 (ARASA Laun./Resp. Wash Facility)

Trailer T320 is a double wide that measures 28 X 56 feet.

150) Task #150 - Trailer T321 (ARASA MHB Rad. Cont. Trailer)

Trailer T321 is a single wide that measures 12 X 56 feet.

151) Task #151 - Trailer T322 (ARASA Supervisor's Office)

Trailer T322 is a single wide that measures 12 X 48 feet.

152) Task #152 - Trailer T323 (ARASA Control Room)

Trailer T323 is a single wide that measures 10 X 30 feet.

153) Task #153 - Trailer T325 (ARASA GCS/WTS Pow. Mod. Bldg)

Trailer T325 is a single wide that measures 8 X 40 feet.

154) Task #154 - Trailer T326 (ARASA Cont. Emissions Mon. Tr.)

Trailer T326 is a single wide that measures 6 X 8 feet.

155) Task #155 - Trailer T327 (Weigh Scale Ticket Office)

Trailer T327 is a single wide that measures 12 X 12 feet.

156) Task #156 - Trailer T330 (Doffing Trailer)

Trailer T330 is a single wide that measures 8 X 8 feet.

157) Task #157 - Trailer T502 (IT Corp. ARASA)

Trailer T502 is a Quad-Plex that measures 60 X 60 feet.

158) Task #158 - Trailer T505 (Facilities Shutdown Break Trailer)

Trailer T505 is a single wide that measures 24 X 8 feet.

159) Task #159 - Trailer T506 (Office)

Trailer T506 is a single wide that measures 14 X 60 feet.

160) Task #160 - Trailer T512 (Break - M. Ravenscraft)

Trailer T512 is a single wide that measures 10 X 48 feet.

161) Task #161 – Trailer T513 (Construction Coordinators)

Trailer T513 is a single wide that measures 12 X 60 feet.

162) Task #162 - Trailer T514 (Construction - Conference Room)

Trailer T514 is a single wide that measures 55 X 11 feet.

163) Task #163 - Trailer T520 (S&W Office)

Trailer T520 is a single wide that measures 24 X 8 feet.

164) Task #164 - Trailer T529 (Storage)

Trailer T529 is a single wide that measures 12 X 20 feet.

165) Task #165 - Trailer T540 (Triplex - Porter Breakroom)

Trailer T540 is a Quad-Plex that measures 48 X 60 feet.

166) Task #166 - Trailer T603 (Storage - Semi Trailer)

Trailer T603 is a single wide that measures 40 X 8 feet.

167) Task #167 - Trailer T604 (Maintenance Storage Semi Trailer)

Trailer T604 is a single wide that measures 40 X 8 feet.

168) Task #168 - Trailer T608 (Break Trailer - Waste Management)

Trailer T608 is a single wide that measures 8 X 12 feet.

169) Task #169 - Building 24C - Locomotive Engine House/Repair and Truck Washing Facility

Building 24C is a single-story building measuring 40×110 ft. and 30 ft. high and consists of a structural steel frame with non-insulated, corrugated metal siding and roofing on a reinforced poured concrete base and floor.

170) Task #170 - Railroad Track

There are approximately four (4) miles of railroad track (132 lbs/yd gauge) that remains from the original site rail construction in the 1950s. There are approximately three miles of additional track (110 lbs/yd gauge) laid in 1997 to support ARASA waste handling and rail shipping operations.

R1-F02-047

1.4.12 BFDDN - D&D Subcontract- Building 64/65

1) Task #1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

2) Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

3) Task #3 - Building 64 (Thorium Warehouse)

Building 64 is a single story building constructed of corrugated metal walls on a concrete slab. The Building 64 metal roof is supported by steel beams and columns. Building 64 is rectangular and measures 50 X 320 X 22 feet high.

4) Task #4 = Building 65 (Old Plant 5 Warehouse)

Building 65 is a single story, rectangular building that measures 50 X 210 X 22 ft high. Building 65 consists of a structural steel frame with non-insulated corrugated metal siding and roofing on a reinforced concrete base.

Task #5 = Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

1.4.13 BFDD1 - D&D Subcontract- Plant 1, Phase II

Facility D&D will be subcontracted. The overall scope of work includes premobilization, mobilization, asbestos abatement, equipment/system removal, interior transite removal, acid brick removal, release cleaning, exterior transite removal, structural steel /masonry demolition and demobilization.

1) Task #1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

2) Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

3) Task #3 - Building 1B

Building 1B is the steel shelter with metal panel roofing that covers a portion of the Plant 1 Pad. The roof has a height of 18 ft.

4) Task #4 - Component 20A

Building 20A is a single-story structure, which consists of a steel frame, metal roof, and transite panels on a reinforced concrete base. The approximate dimensions are 17×83 ft. and 12 ft. in height. This building supplies power to several structures and trailers located on and around the Plant 1 Pad. The building contains electrical meters, panels, and main circuit breakers.

5) Task #5 - Building 30A

Building 30A is a single-level structure measuring 82×321 ft. and 16×10^{-5} ft. high. This building is constructed of a steel frame supported on a reinforced poured concrete base with a reinforced concrete floor and transite siding panels and roof.

6) Task #6 - Building 56A

Building 56A is a single-story building measuring 50 x 180 ft. and 14 ft. high and consists of a structural steel frame with non-insulated, corrugated metal siding and roofing on a reinforced poured concrete base and floor. There is minimal piping and equipment and it is assumed that there is neither ACM nor process-related equipment. Therefore, the entire structure will be dismantled and size reduced using a shear. The contractor will then containerize the debris and move the containers to the queue area for disposition in the OSDF.

7) Task #7 - Building 71

Building 71 is a single-story measuring 100×241 ft. and 13 ft. high. The building consists of block walls, and a bar-joist truss roof system. There is minimal piping and equipment and it is assumed that there is neither ACM nor process-related equipment.

R1-D-441 In addition to Building 71, this task includes the removal of the pipe bridge north of 2^{nd} Street to Building 71 and the former location of Building 2E.

8) Task #8 - Components TS-4, TS-5 and TS-6

Components TS-4, TS-5, and TS-6 are steel tube framed structures enclosed within a synthetic covering. It is assumed that these structures will not be salvaged, but dismantled and sized for placement in the OSDF.

R1-F02-020 9) Task #9 - Component 16N

R1-F02-020

9 10) Task #9 10 - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

1.4.14BFDD5 - D&D Subcontract- Plant 5

Facility D&D will be subcontracted. The overall scope of work includes premobilization, mobilization, Building 5A D&D, Building 5D D&D, and demobilization.

1) Task #1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

2) Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

3) Task #3 - Building 5A

Building 5A is a three-level structural steel frame building. It is irregularly shaped measuring approximately 100 ft x 560 ft and 34 ft high. The building consists of a structural steel frame with transite siding and roofing panels. The south fifth of the building is a three story with poured concrete floors and columns. The north four fifths of the building is an open bay with mezzanines along the length of the building.

4) Task #4 - Component 5D

Building 5D (West Derby Breakout/Slag Milling Building is a four story steel new and unused building measuring approximately 41' x 160' x 50' high. The building consists of a concrete floor and a structural steel frame with metal siding and roofing panels. The building is supported by a concrete foundation on grade. Along the east wall between Building 5D and Building 5A is the exterior transite wall of Building 5A. The removal of this wall is covered in Building 5A.

5) Task #5 - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

1.4.15 BFDD6 - D&D Subcontract- Plant 6

Facility D&D will be subcontracted. The overall scope of work includes premobilization, mobilization, Building 6A D&D, Building 6B D&D, Building 6C D&D, Building 6D D&D, Building 6E D&D, Building 6F D&D, Building 6G D&D, and demobilization.

1) Task #1 - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities. This task is completed and no further action is required.

2) Task #2 - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation. This task is completed and no further action is required.

3) Task #3 - Building 6A

A single level, irregularly shaped building measuring approximately 350 ft \times 620 ft and 50 ft high with partial basement 20 ft below grade. Building 6A consists of a structural steel frame on a reinforced poured concrete base and floor with transite siding and roofing.

4) Task #4 - Building 6B

Plant 6 Covered Storage Area.

5) Task #5 - Building 6C

Building 6C is a single level building measuring approximately 16 ft x 30 ft and 14 ft high. Building 6C is adjacent to the east side of the Metals Fabrication Plant, and consists of a poured concrete base and floor, a structural steel frame and corrugated steel siding.

6) Task #6 - Building 6D

Building 6D is a single level building measuring approximately 16 ft x 30 ft and 14 ft high. Building 6D is adjacent to the east side of the Metals Fabrication Plant, and consists of a poured concrete base and floor, a structural steel frame and corrugated steel siding.

7) Task #7 - Building 6E

Building 6E is a single level building measuring approximately 16 ft x 30 ft and 14 ft high. Building 6E is adjacent to the east side of the Metals Fabrication Plant (Component 6A), and consists of a poured concrete base and floor, a structural steel frame, and corrugated steel siding and roofing.

8) Task #8 - Building 6F

Building 6F (Salt Oil Heat Treatment Building) is a single level building that adjoins the south end of the Metals Fabrication Plant (Component 6A). The rectangular building measures approximately 25 ft x 45 ft and 20 ft high. The building consists of a structural steel frame on a concrete base with transite siding and roofing panels.

9) Task #9 - Building 6G

Building 6G (Plant 6 Sump Building) is a newly built, unused multi-story structure located on the northeast corner of the Metals Fabrication Plant (6A). The building consists of a structural steel frame with metal siding and roofing. The structure was built on a reinforced concrete pad. The approximate dimensions of building 6G are 42 ft x 90 ft and 39 ft high.

10) Task #10 - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

1.5 PROJECT PLAN/TECHNICAL SCOPE AND QUANTIFICATION

1.5.1 BFDD2 - D&D Subcontract - Plant 2

This D&D scope of work will be issued as a task order to the D&D Closure Project contract. This task includes premobilization, mobilization, Building 2A, 2D, 2F, 2H D&D, and demobilization. This work will be conducted by the D&D contractor management team and Building Trades personnel.

1) Task #1 - Premobilization*

1.1) Plan/Scope - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors
- · PLA letter of assent & verification of pre-job meeting
- Pay Item schedule of values
- Baseline/manpower loaded schedule
- Letter Contractor will abide by FDF PSHSP & addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP
- Temporary facilities SWP
- Temporary utilities SWP

1.2) Quantification - Premobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

2) Task #2 - Mobilization

2.1) Plan/Scope - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

- Install temporary portable toilets
- Install asbestos trailer (1 singlewide), water (with 5 micron filter dump to sewer), (heat traced) sewer (heat traced)
- Install temporary utilities tie into substation in Building 3L water point source at low pressure fire protection system, connect to sanitary sewer at 101st & B
- Install construction zone fencing 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting
- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850
- Mobilize equipment fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training Records
- MSDS
- Engineering Surveys
- Other documents as necessary.

Building preparation consists of the following:

- Construction of vestibules
- Construction of Cool down areas
- Construction of Wash down areas

2.2) Quantification – Mobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

3) Task #3 - Building 2A

3.1) Plan/Scope - Building 2A

Building 2A consists of a structural steel frame with transite panels outside walls and roof that is approximately 62 x 382 x 50 ft high. The building floor is a combination of acid brick and concrete. It is a multilevel building with five levels and a penthouse. The interior of the building is divided into three Process Areas separated by transite walls defined as follows (from west to east): Digestion (including the Drum Digestion area), Extraction, and Denitration (including enriched calcining area).

The Digestion Area is divided into two distinct processes. The northern half of the plant was used for digesting uranium ores and residues that had a high radium content (hot side). The southern half of the building handled uranium ores with little to no radium (cold side). The hot side and cold side are separated by a poured concrete wall. The digestion process prepared UNH by dissolving uranium into nitric acid, which was then transferred to the Extraction Area. The Drum Digestion area is located in the middle of the first floor. It is a diked, metal floor with eight drum digestors tanks. The drum digestion area was used to digest highly enriched uranium in nitric acid and water. The following conditions should be anticipated in the Digestion Area during D&D:

Due to the extensive use of nitric acid, most of the transite wall and roof panels in the digestion area are significantly deteriorated and friable - the transite removal will be performed as a Class I abatement, requiring the use of containment/mobile hood, followed by the placement of temporary roofing fabric to maintain the building integrity;

Due to the extensive use of nitric acid, a there is the potential for granular/dust-like particulates to be present between the layers of transite on the roof. Since the transite panels are deteriorated and friable, the particulates will be handled as ACM. The amount of loose contamination between the layers is usually heaviest at the peak of the roof, and decreases as you move away from the roof peak.

R1-F02-050 The hot side tanks are encased with gunnite (7" thick) for shielding purposes - it is currently anticipated that the tanks will be sheared in place after implosion; 4-6 tanks, located in the outdoor curbed area north of the Digestion Area, are encased in a black asphalt/tar ACM material; and

One tank, located in the outdoor curbed area north of the Digestion Area, will contain 300 gallons of an organic liquid (i.e., kerosene) which will be removed by Safe Shutdown once the D&D Contractor cuts the tank open to make the liquid accessible.

PBS-02, DEMOLITION AND DECONTAMINATION CLOSURE PLAN BASIS OF ESTIMATE 2503-PL-0010, Revision 1 September 2001

The Extraction Area process was carried out in the northern half of the building. The purpose of the liquid-liquid countercurrent solvent extraction was to purify UNH solutions. This is accomplished by contacting the UNH solution with tributyl phosphate in kerosene in stainless steel, plate pulse columns and scrubbing the solvents in an acid-charcoal treatment. The following conditions should be anticipated in the Extraction Area during D&D:

The Extraction Area is considered a thorium-contaminated area and the D&D will be performed with thorium as the contaminant of concern - this will require to work under thorium controls (PPE, etc.) during D&D;

Due to the extensive use of nitric acid, most of the transite wall and roof panels in the digestion area are significantly deteriorated and friable - the transite removal will be performed as a Class I abatement, requiring the use of containment/mobile hood, followed by the placement of temporary roofing fabric to maintain the building integrity;

Due to the extensive use of nitric acid, a there is the potential for granular/dust-like particulates to be present between the layers of transite on the roof. Since the transite panels are deteriorated and friable, the particulates will be handled as ACM. The amount of loose contamination between the layers is usually heaviest at the peak of the roof, and decreases as you move away from the roof peak; and

Two gunnite covered tanks are located on the third floor of the extraction area - it is currently anticipated that the tanks will be sheared in place after implosion.

The Denitration Area thermally decomposed UNH to uranium trioxide (UO₃) powder. The main elements of the denitration equipment are 2 boil down tanks, sparge tanks, and the denitration pots. The safe geometry rotary calciner is located in the south side of the third level of the denitration area, calcined $\leq 10\%$ enriched UNH to produce black oxide (U₃O₈). Although Safe Shutdown is ongoing in the facility and most/all process residues will be removed, the following conditions should be anticipated in the Denitration Area during D&D:

The exterior surface of the denitration pots are lined with ACM brick and the attached piping is large diameter with ACM insulation - a containment will be required during abatement/D&D;

The denitration pots are stainless steel and are likely to contain UO₃ residuals - rad engineering does is not currently requiring the use of containments for D&D, therefore, the contractor will use standard mechanical disassembly techniques;

The sparge tanks on the fourth floor also covered with ACM insulation - a containment will be required during abatement/D&D;

Evaporator tanks, located on the denitration roof, are covered with ACM insulation - a containment will be required during abatement; and Safe Shutdown removed enriched restricted material (3% U-235) from the following areas: calciner on the 2nd, 3rd, and 4th floors, south side; South Buffalo Dust Collector on the 4th floor, south side; North Scale Pit on the ground floor, southeast corner; and the G1-240 Dust Collector on the 3rd floor, south side. Residuals may be encountered during D&D which may require HEPA vacuuming and special handling and containerization. However, rad engineering is not currently requiring the use of a containment during demolition. The contractor may use standard mechanical disassembly techniques.

Construct vestibule to act as air lock to minimize the potential spread of contamination. Vestibules shall be constructed of fire retardant materials and be large enough for both personnel and equipment entering and exiting the building.

Establish release cleaning/decon area inside the building. The release cleaning area shall consist of a polyethylene lined containment for the collection of water. The water shall be pumped to water collection tanks for sampling. There shall be adequate tank capacity for a minimum of 30 days of release cleaning activities.

Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

R1-F02-009 The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF. If any process-related piping or equipment fails the visual inspection criteria, it will be packaged for off-site disposal at NTS Envirocare.

Equipment/System Removal

Building 2A outdoor tanks will be sheared in place prior to implosion of the main facility.

Building 2A indoor tanks will be decontaminated, smeared (to ensure the tanks meet the criteria to open a building to the environment), encapsulated (as needed), left in place for dismantlement during implosion, and size reduction by shearing after implosion.

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Containments are not currently required for equipment/system removal in Building 2A.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

R1-F02-009 The Contractor(s) shall size, segregate, and wrap the process-related debris and move the container to the que area for disposition at NTS Envirocare. The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the que area for disposition in the OSDF.

Transite Removal

Transite siding in the denitration area (2 layers of panels) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Transite roofing in the denitration area (2 layers of panels) would likely be removed by 1) spraying encapsulant on the exterior side of the outer panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the outer panels using a scissor lift/knuckleboom, 4) spraying encapsulant on all previously unexposed surfaces of outer panels, 5) HEPA vacuuming dust residuals identified between exterior and interior panels, 6) spraying encapsulant on the exterior surfaces of the interior panel, 7) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the interior panels using a scissor lift/knuckleboom.

The granular/dust-like particulates present between the layers of transite on the roof will be handled as ACM. The Contractor shall take steps to minimize the release of airborne contaminants when these panels are removed by HEPA vacuuming the particulates.

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts.

Windows will be removed by 1) applying tape to the glass, 2) removing the glazing material using a hand-held "chisel", and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during Structural

PBS-02, DEMOLITION AND DECONTAMINATION
CLOSURE PLAN BASIS OF ESTIMATE
2503-PL-0010, Revision 1
September 2001

Steel Removal.

Fiberglass or Mineral Wool Insulation (Batting) located between the interior and exterior transite panels will be removed by 1) spraying encapsulant to exposed surfaces, 2) manually rolling the insulation upon itself, 3) applying amended water for dust suppression, as needed.

The Contractor shall band panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the que area for disposition in the OSDF.

The Contractor(s) shall size, segregate, and containerize the gutter debris, batting, granular particulates, and windows and move the container to the que area for disposition in the OSDF.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Acid Brick Removal

Acid Brick will be removed by 1) manually breaking and removing a few brick to create access using a spud bar, 2) removing acid bricks one at a time by hand, 3) dampening surfaces with water to minimize airborne dust, 4) using HEPA vacuum to remove particulates, 5) maintaining localized HEPA ventilation near the work area.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area at the construction zone boundary

Masonry/Concrete Removal

Above-grade concrete walls will be removed during structural dismantlement (i.e., implosion) while administering water spray to wet the concrete.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

Release Cleaning

Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixitive to areas which do not meet the release cleaning criteria.

There are three Hazardous Waste Management Units (HWMUs) located in and around Plant 2A which include HWMU #10, 47, and 49. Each HWMU contains equipment and/or concrete which must be decontaminated in accordance with Specification Section 01517.

HWMU #10, NAR System Components

HWMU #10 is located in the Denitration Area of Plant 2A, except for Tanks F1-23 and F1-24, which are located outside Plant 2A. HWMU #10 consists of the following components:

- Two liquid cooling tanks (E3E-210 and E3E-211 and associated piping) and associated secondary containment;
- Four weir boxes (F3E-207, F3E-213, F3E-215, and F3E-218) and floor area under the boxes;
- Secondary containment under the two storage tanks (F1-23 and F1-24); and
- Venturi scrubber (Tanks F3E-220 and G2E-207).

The two liquid cooling tanks, E3E-210 and E3E-211, and associated piping must 1) be dismantled, 2) decontaminate interior surfaces which contacted waste, 3) effluent collected separately and sampled for chromium and pH, and 4) upon FDF approval, commingle the effluent with other washwaters and transport the water to AWWT.

There are four weir boxes (F3E-207, F3E-213, F3E-215, and F3E-218) must be 1) decontaminated (rinsed), both interior and exterior surfaces, to a pH above 2, 2) effluent collected separately and sampled for chromium and pH, and 3) upon FDF approval, commingle the effluent with other washwaters and transport the water to AWWT.

Decontaminate (rinse) the secondary containments and/or floors under the 1) Storage Tanks F1-24, 2) two cooling tanks (E3E-210 and E3E-211), 3) four weir boxes (F3E-207, F3E-213, F3E-215, F3E-218), and 4) venturi scrubber (Tanks F3E-220 and G2E-207). Collect effluent separately and sample for chromium and pH. Upon approval from FDF, the combine effluent with other decon washwaters and transport water to AWWT.

HWMU No. 47, UNH Storage Tanks (North of Plant 2A)

HWMU No. 47, UNH Storage Tanks (North of Plant 2A), is located outdoors on the north side of Plant 2A. It consists of three vertical tanks (F2E-5, F2E-6, and F2E-8), measuring 18.5 feet in diameter by 15 feet high and the concrete secondary containment area in which the tanks are grouped. The secondary containment area is 63.5 feet long by 40.5 feet wide with a 2 foot 8 inch high concrete perimeter dike.

Decontaminate (rinse) the secondary concrete containment area under the UNH Storage Tanks north of Plant 2A. Collect effluent separately and sample for chromium, mercury, barium, lead, and pH. Upon approval from FDF, the combine effluent with other decon washwaters and transport water to AWWT.

HWMU No. 49, UNH Storage Tanks, Digestion Area (2 locations)

HWMU No. 49, UNH Storage Tanks, Digestion Area (2 locations), is located inside Plant 2A. The components of this HWMU are as follows:

- Area 1 20 feet by 127 feet (under Tanks D1-1, D1-2, D1-4, F1-1, and F1-25);
- Area 2 20 feet by 127 feet (under Tanks D1-7, D1-10, F1-26).

Decontaminate (rinse) the secondary concrete containment area under the UNH Storage Tanks in the Digestion Area of Plant 2A. Collect effluent separately and sample for chromium, mercury, barium, lead and pH. Upon approval from FDF, the combine effluent with other decon washwaters and transport water to AWWT.

Structural Steel Removal

Structural steel will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

3.2) Quantification - Building 2A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

4) Task #4 - Building 2D

4.1) Plan/Scope - Building 2D

Building 2D is a two-story building located against the north wall of Plant 2A. Its shape is irregular, measuring approximately $39 \times 50 \times 20$ feet high. The building consists of a structural steel frame with transite panels on a poured concrete base with acid brick. The interior of the building is one room with a diamond place mezzanine. Building 2D housed metal dissolution charcoal treatment operations. The following conditions are to be anticipated during D&D:

Due to the extensive use of nitric acid, most of the transite wall and roof panels in the are significantly deteriorated and friable. However, most of the panels have been coated with Aglobal encasement@ to reduce airborne emissions - the transite removal will be performed as a Class I abatement, requiring the use of containment/mobile hood, followed by the placement of temporary roofing fabric to maintain the building integrity; and

Due to the extensive use of nitric acid, a there is the potential for granular/dust-like particulates to be present between the layers of transite on the roof. Since the transite panels are deteriorated and friable, the particulates will be handled as ACM. The amount of loose contamination between the layers is usually heaviest at the peak of the roof, and decreases as you move away from the roof peak.

Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Equipment/System Removal

Building 2D indoor tanks will be decontaminated, smeared (to ensure the tanks meet the criteria to open a building to the environment), encapsulated (as needed), and left in place for dismantlement during implosion, and size reduction by shearing.

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Containments are not currently required for equipment/system removal in Building 2D.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

R1-F02-009 The Contractor(s) shall size, segregate, and wrap the process-related debris and move the container to the que area for disposition at NTS Envirocare. The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the que area for disposition in the OSDF.

PBS-02, DEMOLITION AND DECONTAMINATION CLOSURE PLAN BASIS OF ESTIMATE 2503-PL-0010, Revision 1 September 2001

Transite Removal

Transite siding (2 layers of panels) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels (where global encasement is not already applied) using a hand-held sprayer by workers on ground or in a manlift, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Transite roofing (2 layers of panels) would likely be removed by 1) spraying encapsulant on the exterior side of the outer panels (where global encasement is not already applied) using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the outer panels using a scissor lift/knuckleboom, 4) spraying encapsulant on all previously unexposed surfaces of outer panels, 5) HEPA vacuuming dust residuals identified between exterior and interior panels, 6) spraying encapsulant on the exterior surfaces of the interior panel, 7) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the interior panels using a scissor lift/knuckleboom

The granular/dust-like particulates present between the layers of transite on the roof will be handled as ACM. The Contractor shall take steps to minimize the release of airborne contaminants when these panels are removed by HEPA vacuuming the particulates.

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts.

Windows will be removed by 1) applying tape to the glass, 2) removing the glazing material using a hand-held "chisel", and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during Structural Steel Removal.

Fiberglass or Mineral Wool Insulation (Batting) located between the interior and exterior transite panels will be removed by 1) spraying encapsulant to exposed surfaces, 2) manually rolling the insulation upon itself, 3) applying amended water for dust suppression, as needed.

The Contractor shall band panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the que area for disposition in the OSDF.

The Contractor(s) shall size, segregate, and containerize the gutter debris, batting, granular particulates, and windows and move the container to the que area for disposition in the OSDF.

Acid Brick Removal

Acid Brick will be removed by 1) manually breaking and removing a few brick to create access using a spud bar, 2) removing acid bricks one at a time by hand, 3) dampening surfaces with water to minimize airborne dust, 4) using HEPA vacuum to remove particulates, 5) maintaining localized HEPA ventilation near the work area.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition at NTS.

Release Cleaning

Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixitive to areas which do not meet the release cleaning criteria.

Structural Steel Removal

Structural steel will be dismantled by shearing.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

4.2) Quantification - Building 2D

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

5) Task #5 - Component 2F

5.1) Plan/Scope - Component 2F

Component 2F provided a means for uranium ores and residues to reach the digestion process. The conveyer is located on the west pad (74B) of Plant 2A and measures approximately 92 x 24 feet. The following equipment remain: drum conveyer, bucket elevator, drum dumper, screw conveyer, conveyor shed, drum dumper building, and a 20 feet deep elevator pit.

Asbestos Abatement

ACM piping will be removed by glovebag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glovebag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using hand-held tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut

pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

Equipment/System Removal

Component 2F non-process equipment/systems will be sheared in place using water misting to control airborne emissions and the concrete pad area to control run-off.

Process- Related debris will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Containments are not currently required for equipment/system removal in Component 2F.

R1-F02-009 The Contractor(s) shall size, segregate, and wrap the process-related debris and move the container to the que area for disposition at NTS Envirocare. The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the que area for disposition in the OSDF.

Release Cleaning

Release Cleaning of debris will be performed on the debris by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixitive to areas which do not meet the release cleaning criteria. Structural Steel Removal

Structural steel will be dismantled by shearing.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

5.2) Quantification - Component 2F

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

6) Task #6 - Component 2H

6.1) Plan/Scope - Component 2H

Component 2H housed a subgrade conveyor with approximate dimensions of 15 X 190 ft and 5 ft. deep. This component extends from the former Plant 1 Ore Silos to the Ore Refinery Plant and was used to transport milled uranium ores to the Ore Refinery Plant.

Equipment/System Removal

Process- Related debris will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Containments are not currently required for equipment/system removal in Component 2H.

R1-F02-009 The Contractor(s) shall size, segregate, and wrap the process-related debris and move the container to the que area for disposition at NTS Envirocare. The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the que area for disposition in the OSDF.

Release Cleaning

Release Cleaning of debris will be performed on the debris by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixitive to areas which do not meet the release cleaning criteria.

6.2) Quantification - Component 2H

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

7) Task #7 - Demobilization

7.1) Plan/Scope – Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing

- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

7.2) Quantification - Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

1.5.2 BFDD3 - D&D Subcontract - Plant 3

This D&D scope of work will be issued as a task order to the D&D Closure Project contract. This task includes premobilization, mobilization, Building 3B D&D, Building 3C D&D, Component 3D D&D, Building 3E D&D, Component 3J D&D, Component 3K D&D, Building 39A D&D, Component 22E D&D, and demobilization. This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor FTEs are presented in Section 3, and estimated quantities are presented in Section 4.

1) Task #1 - Premobilization

1.1) Plan/Scope - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors
- PLA letter of assent & verification of pre-job meeting
- Pay Item schedule of values
- Baseline/manpower loaded schedule
- Letter Contractor will abide by FDF PSHSP & addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP

- Temporary facilities SWP
- Temporary utilities SWP

1.2) Quantification - Premobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

2) Task #2 - Mobilization

2.1) Plan/Scope - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

- Install temporary portable toilets
- Install asbestos trailer (1 singlewide), water (with 5 micron filter dump to sewer), (heat traced) sewer (heat traced)
- Relocate and install T95 (4-Plex) and T130 (doublewide) including all utilities and fixtures.
- Install temporary utilities tie into substation in Building 3L water point source at low pressure fire protection system, connect to sanitary sewer at 101st & "B" street.
- Install construction zone fencing 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting
- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850
- Mobilize equipment fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training Records

- MSDS
- Engineering Surveys
- Other documents as necessary.

Building preparation consists of the following:

- Construction of vestibules
- · Construction of Cool down areas
- Construction of Wash down areas

2.2) Quantification - Mobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

3) Task #3 - Building 3B

3.1) Plan/Scope - Building 3B

Building 3B (Ozone Building) is a single-level structural steel frame building. It is rectangular shaped, measuring 27'x 33'x 14' high. The building consists of a concrete floor and a structural steel frame with transite siding and roofing panels. The building is supported by a concrete foundation on grade.

Equipment Dismantlement

All process-related materials were removed in 1975.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

Structural steel will be dismantled by shearing.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

Transite Removal

Transite siding (1 layer of panel) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3)

lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Transite roofing (1 layer of panel) would likely be removed by 1) spraying encapsulant on the exterior side of the outer panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the outer panels using a scissor lift/knuckleboom, and 4) spraying encapsulant on all previously unexposed surfaces of outer panels.

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Windows will be removed by: 1) applying tape to the glass, 2) removing the glazing material using a hand-held "chisel", and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during Structural Steel Removal.

The Contractor shall band transite panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the que area for disposition in the OSDF.

The Contractor(s) shall size, segregate, and containerize the gutter debris and windows and move the container to the que area for disposition in the OSDF.

Structural Dismantlement

Structural steel will be dismantled by shearing.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

3.2) Quantification - Building 3B

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

4) Task #4 - Building 3C

4.1) Plan/Scope - Building 3C

Building 3C (Nitric Acid Recovery Tower Control House) is a single-level rectangular building measuring Approximately 26'x110'x14' high. Building 3C consists of a concrete floor and a structural steel frame with transite siding and roofing panels. The building is supported by a concrete foundation on grade.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glovebag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using handheld tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM Floor Tile will be removed by 1) applying amended water, 2) physically breaking the tiles using hand-held scrapers, 3) remove mastic by applying mastic dissolver and scouring the floor with a hand-held floor scrubber, 4) apply absorbent material (sawdust or cat litter) to remove any dissolved mastic.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

Equipment Dismantlement

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Containments are not required for equipment/system removal in Building 3C.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

R1-F02-012 The Contractor(s) shall size, segregate, and wrap the process-related debris and move the container to the que area for disposition at NTS Envirocare. The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the que area for disposition in the OSDF.

Transite Removal

Transite siding (2 layers of panels) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Transite roofing (2 layers of panels) would likely be removed by 1) spraying encapsulant on the exterior side of the outer panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the outer panels using a scissor lift/knuckleboom, 4) spraying encapsulant on all previously unexposed surfaces of outer panels, 5) HEPA vacuuming dust residuals identified between exterior and interior panels, 6) spraying encapsulant on the exterior surfaces of the interior panel, 7) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the interior panels using a scissor lift/knuckleboom.

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Windows will be removed by 1) applying tape to the glass, 2) removing the glazing material using a hand-held "chisel", and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during Structural Steel Removal.

Fiberglass or Mineral Wool Insulation (Batting) located between the interior and exterior transite panels will be removed by 1) spraying encapsulant to exposed surfaces, 2) manually rolling the insulation upon itself, 3) applying amended water for dust suppression, as needed.

The Contractor shall band panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the que area for disposition in the OSDF.

The Contractor(s) shall size, segregate, and containerize the gutter debris, batting, and windows and move the container to the que area for disposition in the OSDF.

Structural Dismantlement

Structural steel will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

4.2) Quantification - Building 3C

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

5) Task #5 - Component 3D

5.1) Plan/Scope - Component 3D

Component 3D (Nitric Acid Recovery Towers) is a six-level open steel supported structure that is approximately 46'x60'x60' high. The ground floor of the structure is contained in a concrete diked area (not covered in acid brick) that is approximately 70'x108'. The upper five floors have steel decking as flooring.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glovebag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using hand-held tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

Equipment Dismantlement

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift, bobcat, or crane, 5) move equipment to inspection area and potential decon.

Tanks and vessels will sheared during structural demolition using water spray for dust control and the concrete diked area for runoff control.

Containments are not required for equipment/system removal in Building 3D.

Non-process piping, valves, conduit, cable, lighting, etc. will also remain intact until Structural Steel Removal.

R1-F02-012 The Contractor(s) shall size, segregate, and wrap the process-related debris and move the container to the que area for disposition at NTS Envirocare. The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the que area for disposition in the OSDF.

Structural Dismantlement

Structural steel, stairs, ladders, and steel decking will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

5.2) Quantification - Component 3D

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

6) Task #6 - Building 3E

6.1) Plan/Scope - Building 3E

Building 3E (Hot Raffinate Building) is a three story irregularly shaped concrete building measuring approximately 50'x90'x60' high at its greatest dimension. The building consists of cast in place concrete construction with heavy concrete walls and double pane water filled windows. The building has concrete flooring and is supported by a concrete foundation extending below and above grade elevation. The building also contains transite and a built up roof.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glovebag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using handheld tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

Equipment Dismantlement

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or

tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Containments are not required for equipment/system removal in Building 3E.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

R1-F02-012

The Contractor(s) shall size, segregate, and wrap the process-related debris and move the container to the que area for disposition at NTS Envirocare. The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the que area for disposition in the OSDF.

Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixitive to areas which do not meet the release cleaning criteria.

R1-F02-011 There are two areas of concrete located on the first floor of the Hot Raffinate Building that are considered Hazardous Waste Management Unit (HWMU) areas. The HWMU areas shall be decontaminated in accordance with Specification Section 01517. The Site Support Contractor shall wash the areas and collect effluent separately. The Site Support Contractor shall perform washing of the areas until the analytical results indicate that the closure limits have been met. Upon approval from FDF, the Site Support Contractor shall combine effluent with other decon washwaters and for transport water to AWWT by Fluor Female.

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050

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F02-011

Acid Brick will be removed by 1) manually breaking and removing a few brick to create access using a spud bar, 2) removing acid bricks one at a time by hand, 3) dampening surfaces with water to minimize airborne dust, 4) using HEPA vacuum to remove particulates, 5) maintaining localized HEPA ventilation near the work area.

Transite Removal

Transite siding (2 layers of panels) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Transite roofing (2 layers of panels) would likely be removed by 1) spraying encapsulant on the exterior side of the outer panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the outer panels using a scissor lift/knuckleboom, 4) spraying encapsulant on all previously unexposed surfaces of outer panels, 5) HEPA vacuuming dust residuals identified between exterior and interior panels, 6) spraying encapsulant on the exterior

surfaces of the interior panel, 7) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the interior panels using a scissor lift/knuckleboom

Built-Up Roofing (assumed non-friable/Class II removal) will be removed by 1) wetting surfaces and applying HEPA vacuums, 2) mechanically cutting the roof into manageable pieces by using electric saws (circular or reciprocating), 3) wrapping the roof pieces in 6 mil poly, 4) lowering the pieces to the ground using manlift.

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Double Pane Windows will be removed by 1) applying tape to the glass, 2) removing the glazing material using a hand-held "chisel", and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during Structural Steel Removal.

Fiberglass or Mineral Wool Insulation (Batting) located between the interior and exterior transite panels will be removed by 1) spraying encapsulant to exposed surfaces, 2) manually rolling the insulation upon itself, 3) applying amended water for dust suppression, as needed.

The Contractor shall band panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the que area for disposition in the OSDF.

The Contractor(s) shall size, segregate, and containerize the gutter debris, batting, built-up roofing, and windows and move the container to the que area for disposition in the OSDF.

Structural Dismantlement

Above-grade concrete walls will be removed by 1) administering water spray to wet the concrete before and during dismantlement, 2) use hoe ram or shears to dismantle and size reduce using pushover techniques, and 3) shear steel reinforcements, as needed.

Structural steel will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

6.2) Quantification - Building 3E

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

7) Task #7 - Component 3J

7.1) Plan/Scope - Component 3J

Component 3J (Combined Raffinate Tanks) is an outdoor multilevel tank farm area consisting of (17) seventeen vertical tanks measuring 39'x169"X 20' high. Beneath the tanks is a concrete pad and dike covered with acid brick. The tanks are stainless steel and the majority are covered with a cement coating. The tanks, connection piping, catwalks, and stairs are supported by structural steel members of various sizes.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glovebag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using handheld tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

Equipment Dismantlement

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift, bobcat, or crane, 5) move equipment to inspection area and potential decon.

Tanks and vessels will sheared during structural demolition using water spray for dust control and the acid brick diked area for runoff control.

Containments are not required for equipment/system removal in Building 3J.

Non-process piping, valves, conduit, cable, lighting, etc. will also remain intact until Structural Steel Removal.

The Contractor(s) shall size, segregate, and wrap the process-related debris and move the container to the que area for disposition at Envirocare. The Contractor(s) shall size,

segregate, and containerize the non-process debris and move the container to the que area for disposition in the OSDF.

Acid Brick will be removed by 1) manually breaking and removing a few brick to create access using a spud bar, 2) removing acid bricks one at a time by hand, 3) dampening surfaces with water to minimize airborne dust, 4) using HEPA vacuum to remove particulates, 5) maintaining localized HEPA ventilation near the work area.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area at the construction zone boundary.

Structural Dismantlement

Structural steel, stairs, ladders, and steel decking will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

7.2) Quantification - Component 3J

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

8) Task #8 - Component 3K

8.1) Plan/Scope - Component 3K

Component 3K (Old Cooling Water Tower) formerly was a one story, redwood structure measuring approximately 30'x50'. The wooden tower has been removed, leaving at grade and below-grade structure consisting of a concrete basin and a diked pad. Some of the mechanical components remain consisting of lights, conduit, piping, valves, electrical enclosures and support steel. D&D will consist of removing the components.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glovebag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using hand-held tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

Structural and Equipment Dismantlement

All equipment and systems remaining are non-process which will be removed using mechanical means. The tower and all systems will be dismantled by shear.

8.2) Quantification - Component 3K

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

9) Task #9 - Building 39A

9.1) Plan/Scope - Building 39A

Building 39A (Incinerator Building) is a two story square structure measuring 53'x53'x25' high. The building consists of a structural steel frame enclosed with interior and exterior transite siding along with a double layer insulation between the transite roof panels. The building is supported by a concrete foundation extending below -and above- grade level with a finished concrete floor.

Equipment Dismantlement

Construct vestibule.

Establish release cleaning/decon area inside the building.

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Containments are not required for equipment/system removal in Building 39A. Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

The Contractor(s) shall size, segregate, and wrap the process-related debris and move the container to the que area for disposition at Envirocare. The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the que area for disposition in the OSDF.

Acid Brick will be removed by 1) manually breaking and removing a few brick to create access using a spud bar, 2) removing acid bricks one at a time by hand, 3) dampening surfaces with water to minimize airborne dust, 4) using HEPA vacuum to remove particulates, 5) maintaining localized HEPA ventilation near the work area.

Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixitive to areas which do not meet the release cleaning criteria.

Transite Removal

Transite siding (1 layer of panel) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Transite roofing (1 layer of panel) would likely be removed by 1) spraying encapsulant on the exterior side of the outer panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the outer panels using a scissor lift/knuckleboom, 4) spraying encapsulant on all previously unexposed surfaces of outer panels, 5) HEPA vacuuming dust residuals identified between exterior and interior panels, 6) spraying encapsulant on the exterior surfaces of the interior panel, 7) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the interior panels using a scissor lift/knuckleboom,

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Windows will be removed by 1) applying tape to the glass, 2) removing the glazing material using a hand-held "chisel", and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during Structural Steel Removal.

The Contractor shall band panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the que area for disposition in the OSDF.

The Contractor(s) shall size, segregate, and containerize the gutter debris, batting, and windows and move the container to the que area for disposition in the OSDF.

Structural Dismantlement

Above-grade concrete walls will be removed by 1) administering water spray to wet the concrete before and during dismantlement, 2) use hoe ram or shears to dismantle and size reduce using pushover techniques, and 3) shear steel reinforcements, as needed.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area at the construction zone boundary.

Structural steel will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

9.2) Quantification - Building 39A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

10) Task #10 - Component 22E

10.1) Plan/Scope - Component 22E

Component 22E is the trench used in the pumping of high-radium raffinate slurry from the Hot Raffinate Building (Building 3E) to K-65 Silos 1 and 2. Also, decant from the K-65 Silos was returned through the trench and collected in the tank located on the northwestern corner of Building 3E before being transferred for treatment.

Equipment Dismantlement

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Containments are not required for equipment/system removal in Component 22E.

The Contractor(s) shall size, segregate, and wrap the process-related debris and move the container to the que area for disposition at Envirocare. The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the que area for disposition in the OSDF.

Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixitive to areas which do not meet the release cleaning criteria.

Structural Dismantlement

No structural dismantlement is required.

10.2) Quantitative - Component 22E

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

11) Task #11 - Demobilization

11.1) Plan/Scope - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

11.2) Quantification – Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

1.5.3 BFDDS - D&D Subcontract - General Sump

This D&D scope of work will be issued as a task order to the D&D Closure Project contract. This task includes premobilization, mobilization, Building 2B D&D, Building 2C D&D, Component 3H D&D, Component 18B D&D, Component 18D D&D, Building 18H D&D, Building 3A D&D, Building 3L D&D, miscellaneous pipes and racks D&D and demobilization. This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor FTEs are presented in Section 3, and estimated quantities are presented in Section 4.

1) Task #1 - Premobilization

1.1) Plan/Scope - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors
- PLA letter of assent & verification of pre-job meeting
- Pay Item schedule of values
- Baseline/manpower loaded schedule
- Letter Contractor will abide by FDF PSHSP & addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP
- Temporary facilities SWP
- Temporary utilities SWP

1.2) Quantification - Premobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

2) Task #2 - Mobilization

2.1) Plan/Scope - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

- Install temporary portable toilets
- Install asbestos trailer (1 singlewide), water (with 5 micron filter dump to sewer), (heat traced) sewer (heat traced)
- Install temporary utilities tie into substation in Building 36 water point source at low pressure fire protection system, connect to sanitary sewer at 101st & "B".
- Install construction zone fencing 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting

- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850
- Mobilize equipment fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training Records
- MSDS
- Engineering Surveys
- Other documents as necessary.

Building preparation consists of the following:

- Construction of vestibules
- Construction of Cool down areas
- Construction of Wash down areas

2.2) Quantification - Mobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

3) Task #3 - Building 2B

3.1) Plan/Scope - Building 2B

Building 2B is a two-story building comprising an older original building with a newer annex attached to the south side. It consists of a concrete first floor and metal diamond plate second floor; it was constructed with a structural steel frame and transite panels for walls and roof. The older part of 2B is approximately 39 x 43 feet and contains several tanks, transfer lines, and an electrical panel. The newer annex holds a laboratory facility to support the refinery sump and is approximately 20 x 20 feet with a concrete floor covered with floor tile on the first floor and only concrete on the second floor. The walls consist of structural steel and wall board. The ceiling on the first floor is metal decking, while the second floor has metal decking covered with fiberglass insulation.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3)

perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using handheld tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF. If any process-related piping or equipment fails the visual inspection criteria, it will be packaged for off-site disposal at NTS.

Equipment/System Removal

Process-related debris is not anticipated in this building; containments are not required for equipment/system removal in Building 2B.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

Wallboard will be removed by: 1) manually detaching the fasteners; and 2) lowering the panels by hand if on ground level, or for elevated removal, lowering the panels using an elevated work platform.

Non-ACM floor tile will be removed by: 1) physically breaking the tiles using a hand-held scraper; 2) removing mastic by applying mastic dissolver and scouring the floor with a hand-held floor scrubber; 3) applying absorbent material (sawdust or cat litter) to remove and undissolved mastic; and 4) shoveling the absorbent into containers.

The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the queue area for disposition in the OSDF.

Mansonry/Concrete Removal

Above-grade concrete walls will be removed by 1) administering water spray to wet the concrete before and during dismantlement, 2) use hoe ram or shears to dismantle and size reduce using pushover techniques, and 3) shear steel reinforcements, as needed.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Transite Removal

Transite siding (1 layer of panels) would likely be removed by: 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal); and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Transite roofing (1 layer of panels) would likely be removed by: 1) spraying encapsulant on the exterior side of the panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal); 3) lowering the outer panels using a scissor lift/knuckleboom; and 4) spraying encapsulant on all previously unexposed surfaces of panels.

Gutters and down spouts will be removed by: 1) accessing using manlifts; 2) ACM contents wet with amended water; 3) ACM contents manually scooped out; 4) encapsulant applied to the cleaned gutter/spout; 5) disassembled at the joints using mechanical methods; and 6) lowered to the ground in the manlifts.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Windows will be removed by: 1) applying tape to the glass; 2) removing the glazing material using a hand-held "chisel"; and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during Structural Steel Removal.

Fiberglass or Mineral Wool Insulation (Batting) located between the interior and exterior transite panels will be removed by: 1) spraying encapsulant to exposed surfaces; 2) manually rolling the insulation upon itself; and 3) applying amended water for dust suppression, as needed.

The Contractor shall band panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the queue area for disposition in the OSDF.

The Contractor(s) shall size, segregate, and containerize the debris, move the containers to the queue area for disposition in the OSDF.

Structural and Equipment Dismantlement

Above-grade concrete walls will be removed by 1) administering water spray to wet the concrete before and during dismantlement, 2) use hoe ram or shears to dismantle and size reduce using pushover techniques, and 3) shear steel reinforcements, as needed.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

3.2) Quantification – Building 2B

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

4) Task #4 - Building 2C

4.1) Plan/Scope - Building 2C

Building 2C is a three-level building; the first and third levels of the building are rectangular, with dimensions 17 x 28 x 10 feet. The second level constitutes a steel silo that is 50 feet tall and 18 feet wide. Building 2C has a structural steel frame, transite siding and roofing, and a concrete foundation. Building 2C had one wet process area, bulk lime handling, which produced a lime slurry for processes in Plant 2A. Bulk lime was received in the silo a vacuum pump filled the silo with lime. The silo released the lime to the lime slaker, where water was added to create the slurry. The slurry was then transferred to the break tank for agitating and pumped to a holding tank north of Plant 2A.

Interior Asbestos Abatement

AGM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM tile will also be removed; being very careful not to break the tile prior to removal and keeping the surfaces wet with amended water.

Cubicle or temporary walls and carpet will be removed.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Equipment Dismantlement

Process-related debris is not anticipated in this building; containments are not required for equipment/system removal in Building 2C.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during structural steel removal.

The silo will sheared during structural demolition using water spray for dust control.

The contractor will size and containerize the remaining commingled debris and move the containers to the queue area for disposition in the OSDF.

Transite Removal

Transite siding (1 layer of panels) would likely be removed by: 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal); and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Transite roofing (1 layer of panels) would likely be removed by: 1) spraying encapsulant on the exterior side of the panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal); 3) lowering the outer panels using a scissor lift/knuckleboom; and 4) spraying encapsulant on all previously unexposed surfaces of panels.

Gutters and down spouts will be removed by: 1) accessing using manlifts; 2) ACM contents wet with amended water; 3) ACM contents manually scooped out; 4) encapsulant applied to the cleaned gutter/spout; and 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Windows will be removed by: 1) applying tape to the glass; 2) removing the glazing material using a hand-held "chisel"; and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during structural steel removal.

Fiberglass or Mineral Wool Insulation (Batting) located between the interior and exterior transite panels will be removed by: 1) spraying encapsulant to exposed surfaces; 2) manually rolling the insulation upon itself; and 3) applying amended water for dust suppression, as needed.

The Contractor shall band panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the queue area for disposition in the OSDF.

The Contractor(s) shall size, segregate, and containerize the debris, move the containers to the queue area for disposition in the OSDF.

Structural and Equipment Dismantlement

Structural steel, non-process equipment, and decking will be dismantled by shear.

The contractor will size and containerize the remaining commingled debris and move the containers to the queue area for disposition in the OSDF.

4.2) Quantification - Component 2C

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

5) Task #5 - Component 3H

5.1) Plan/Scope - Component 3H

Component 3H provided treatment of contaminated effluents from Plant 2A with magnesium oxide to precipitate uranium. The Refinery Sump is comprised of six tanks and is located outside in an acid brick containment area measuring 55×100 feet.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Equipment System Removal

Process- Related Materials will be dismantled by: 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces; 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch; 3) seal openings with 6 mil poly or tape; 4) if applicable, lower to the ground using forklift, bobcat, or crane; and 5) move equipment to inspection area and potential decontamination.

Tanks and vessels will sheared during structural demolition using water spray for dust control and the acid brick diked area for runoff control.

Containments are not required for equipment/system removal in Building 3H. The Contractor(s) shall size, segregate, and wrap the process-related debris and move the containers to the queue area for disposition at OSDF. The Contractor(s) shall size, segregate, and containerize the non-process debris and move the containers to the queue area for disposition in the OSDF.

Acid Brick Removal

Acid Brick will be removed by: 1) manually breaking and removing a few brick to create access using a spud bar; 2) removing acid bricks one at a time by hand; 3) dampening surfaces with water to minimize airborne dust; 4) using HEPA vacuum to remove particulates; and 5) maintaining localized HEPA ventilation near the work area.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area at the construction zone boundary.

Structural and Equipment Dismantlement

Structural steel, stairs, ladders, and steel decking will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

5.2) Quantification - Component 3H

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

6) Task #6 - Component 18B

6.1) Plan/Scope - Component 18B

Component 18B provided treatment of contaminated site effluents other than sewage. The General Sump is comprised of 16 tanks; most of the tanks are located outside in four separate concrete containment areas. The open area that makes up Component 18B is approximately 113×116 feet.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

99 of 207

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Equipment System Removal

Process- Related Materials will be dismantled by: 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces; 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch; 3) seal openings with 6 mil poly or tape; 4) if applicable, lower to the ground using forklift, bobcat, or crane; and 5) move equipment to inspection area and potential decontamination.

Tanks and vessels will sheared during structural demolition using water spray for dust control and the acid brick diked area for runoff control.

Containments are not required for equipment/system removal in Building 18B.

The Contractor(s) shall size, segregate, and wrap the process-related debris and move the containers to the queue area for disposition at NTS. The Contractor(s) shall size, segregate, and containerize the non-process debris and move the containers to the queue area for disposition in the OSDF.

HWMU #48 Cleaning

There is an area of concrete located under the UNH Tanks that is considered a Hazardous Waste Management Unit (HWMU #48). The HWMU area shall be decontaminated in accordance with Specification Section 01517. The Site Contractor shall wash the areas and collect effluent separately. The Contractor shall wash the areas until the analytical results indicate that the closure limits have been met. Fluor Fernald will collect a sample and perform laboratory analysis. Upon approval from Fluor Fernald, the Contractor shall combine effluent with other decontamination washwaters and transport water to AWWT.

Structural and Equipment Dismantlement

Structural steel, stairs, ladders, and steel decking will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

6.2) Quantification - Component 18B

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

7) Task #7 - Building 18D

7.1) Plan/Scope - Building 18D

Building 18D is a multi-level (six floor) building. It is irregularly shaped, measuring approximately 72 x 79 x 67 feet high and consists of a structural steel frame on a poured concrete base and floor with non-insulated, corrugated metal siding and roofing. One Process Area was identified for Building 18D; high nitrate waste waters that were collected in the BDN Surge Lagoon were mixed with methanol and fed to Building 18D. The waste waters flowed through the towers, fluidizing coal particles that had bacteria attached, decomposing, and releasing CO2 and N2 off the top of the towers.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Equipment/System Dismantlement

Process- Related Materials will be dismantled by: 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces; 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch; 3) seal openings with 6 mil poly or tape; 4) if applicable, lower to the ground using forklift, bobcat, or crane; and 5) move equipment to inspection area and decontamination.

If any process-related piping or equipment fails the visual inspection criteria, it will be packaged for off-site disposal at Envirocare.

Tanks and vessels will be sheared during structural demolition using water spray for dust control and the acid brick diked area for runoff control.

Containments are not required for equipment/system removal in Building 18D.

The Contractor(s) shall size, segregate, and containerize the non-process debris and move the containers to the queue area for disposition in the OSDF.

Structural Dismantlement

Structural steel, siding, stairs, ladders, and steel decking will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Non-process piping, valves, conduit, cable, lighting, non-ACM floor tile, etc. will remain in the building during dismantlement of the structure.

8) Task #8 - Building 18H

8.1) Plan/Scope - Building 18H

Building 18H is a single story structure which consists of a reinforced concrete floor and steel frame, as well as metal siding and roofing. The approximate dimensions are 30 x 15 x 15 feet in height. Process effluent from the Biodenitrification Towers was received in Building 18H for further treatment through chlorination and aeration. The equipment housed in Building 18H includes electrical pumps, chlorinators, process tanks, air compressors, aerators, and a filter press. The equipment located along the southwest interior wall was controlled as a radiological contamination area. It is assumed that the in-vivo equipment is salvageable and will be removed prior to

It is assumed that the in-vivo equipment is salvageable and will be removed prior to turnover of the building to the D&D project. Any equipment left behind will be considered waste for removal and disposal.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF

Equipment/System Dismantlement

Process- Related Materials will be dismantled by: 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces; 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch; 3) seal openings with 6 mil poly or tape; 4) if applicable, lower to the ground using forklift, bobcat, or crane; and 5) move equipment to inspection area and potential decontamination.

Tanks and vessels will sheared during structural demolition using water spray for dust control and the acid brick diked area for runoff control.

Containments are not required for equipment/system removal in Building 18H.

The Contractor(s) shall size, segregate, and wrap the process-related debris and move the containers to the queue area for disposition at OSDF. The Contractor(s) shall size, segregate, and containerize the non-process debris and move the containers to the queue area for disposition in the OSDF.

Structural Dismantlement

Structural steel, siding, stairs, ladders, and steel decking, will be dismantled by shear.

The contractor will size and containerize the remaining commingled debris and move the containers to the queue area for disposition in the OSDF.

8.2) Quantification – Building 18H

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

9) Task #9 - Building 3A

9.1) Plan/Scope - Building 3A

Building 3A is a single story, square building measuring approximately $60 \times 60 \times 14$ feet high. Building 3A has a structural steel frame, with transite panels covering cinder block walls, and a concrete floor. The building is one room, except for office space along the east wall and two small steel-frame mezzanines. The building is currently used for offices and storage space.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Equipment/System Dismantlement

No process-related materials are anticipated in this facility. Most equipment/systems may remain in the facility during structural demolition.

The Contractor(s) shall size, segregate, and containerize the non-process debris and move the containers to the queue area for disposition in the OSDF.

Transite Removal

Transite siding (1 layer of panels) would likely be removed by: 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal); and 3) owering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Transite roofing (1 layer of panels) would likely be removed by: 1) spraying encapsulant on the exterior side of the panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal); 3) lowering the outer panels using a scissor lift/knuckleboom; and 4) spraying encapsulant on all previously unexposed surfaces of panels.

Gutters and down spouts will be removed by: 1) accessing using manlifts; 2) ACM contents wet with amended water; 3) ACM contents manually scooped out; 4) encapsulant applied to the cleaned gutter/spout; 5) disassembled at the joints using mechanical methods; and 6) lowered to the ground in the manlifts.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Windows will be removed by: 1) applying tape to the glass; 2) removing the glazing material using a hand-held "chisel"; and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during structural steel removal.

Fiberglass or Mineral Wool Insulation (Batting) located between the interior and exterior transite panels will be removed by: 1) spraying encapsulant to exposed surfaces; 2) manually rolling the insulation upon itself; 3) applying amended water for dust suppression, as needed.

The Contractor shall band panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the queue area for disposition in the OSDF.

The Contractor(s) shall size, segregate, and containerize the debris, move the container to the queue area for disposition in the OSDF.

Mansonry/Concrete Removal

Above-grade cinderblock walls will be removed by: 1) administering water spray to wet the concrete before and during dismantlement; 2) use hoe ram or shears to dismantle and size reduce using pushover techniques; and 3) shear steel reinforcements, as needed.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Structural Dismantlement

Structural steel, mezzanines, stairs, ladders, and steel decking, will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

The Contractor will size and containerize the remaining commingled debris and move the containers to the queue area for disposition in the OSDF.

9.2) Quantification - Building 3A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

10) Task #10 - Building 3L

10.1) Plan/Scope - Building 3L

Building 3L is a single story building measuring approximately $24 \times 91 \times 10$ feet high. It consists of a concrete floor, structural steel frame, transite siding and roof, with a cinder block room inside. The building contains electrical meters, panels, and main circuit breakers.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF

Equipment/System Dismantlement

No process-related materials are anticipated in this facility. Most equipment/systems may remain in the facility during structural demolition.

The Contractor(s) shall size, segregate, and containerize the non-process debris and move the containers to the queue area for disposition in the OSDF.

Transite Removal

Transite siding (1 layer of panels) would likely be removed by: 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal); and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Transite roofing (1 layer of panels) would likely be removed by: 1) spraying encapsulant on the exterior side of the panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal); 3) lowering the outer panels using a scissor lift/knuckleboom; and 4) spraying encapsulant on all previously unexposed surfaces of panels.

Gutters and down spouts will be removed by: 1) accessing using manlifts; 2) ACM contents wet with amended water; 3) ACM contents manually scooped out; 4) encapsulant applied to the cleaned gutter/spout; 5) disassembled at the joints using mechanical methods; and 6) lowered to the ground in the manlifts.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Windows will be removed by: 1) applying tape to the glass; 2) removing the glazing material using a hand-held "chisel"; and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during structural steel removal.

Fiberglass or Mineral Wool Insulation (Batting) located between the interior and exterior transite panels will be removed by: 1) spraying encapsulant to exposed surfaces; 2) manually rolling the insulation upon itself; and 3) applying amended water for dust suppression, as needed.

The Contractor shall band panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the queue area for disposition in the OSDF.

The Contractor(s) shall size, segregate, and containerize the debris, move the containers to the queue area for disposition in the OSDF.

Concrete/Mansonry Removal

Above-grade cinderblock walls will be removed by: 1) administering water spray to wet the concrete before and during dismantlement; 2) use hoe ram or shears to dismantle and size reduce using pushover techniques; and 3) shear steel reinforcements, as needed.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Structural Dismantlement

Structural steel, mezzanines, stairs, ladders, and steel decking, will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

10.2) Quantification - Building 3L

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

- 11) Task #11 Miscellaneous Pipe and Pipe Racks
- 11.1) Plan/Scope Miscellaneous Pipe and Pipe Racks

Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Structural Dismantlement

Miscellaneous pipes, pipe racks, and power supply, etc., remove the piping from air gap isolation points in the pipe racks and power supply from the isolation points to the

buildings, and piping and pipe racks from building to building shall be removed. The pipe racks shall be removed to the top of the concrete footer and the attachment bolts shall be cut flush with the concrete using sheers.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

11.2) Quantification - Miscellaneous Pipe and Pipe Racks

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

12) Task #12 - Demobilization

12.1) Plan/Scope - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

12.2) Quantification - Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

1.5.4 BFDD8 - D&D Subcontract - Plant 8

This D&D scope of work will be issued as a task order to the D&D Closure Project contract. This task includes premobilization, mobilization, Building 8A, 8B, 8C, 8E, 8G, 8H D&D, and demobilization. This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D schedule is presented in Section 2.0, Subcontractoe FTE's are presented in Section 3 and estimated quantities are presented in Section 4.

1) Task #1 - Premobilization

1.1) Plan/Scope - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors
- PLA letter of assent & verification of pre-job meeting
- Pay Item schedule of values
- Baseline/manpower loaded schedule
- Letter Contractor will abide by FDF PSHSP & addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP
- Temporary facilities SWP
- Temporary utilities SWP

1.2) Quantification - Premobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

2) Task #2 - Mobilization

2.1) Plan/Scope - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

Install temporary portable toilets

- Install asbestos trailer (1 singlewide), water (with 5 micron filter dump to sewer), (heat traced) sewer (heat traced)
- Install temporary utilities tie into substation in Building 36 water point source at low pressure fire protection system, connect to sanitary sewer at 101st and "B" street.
- Install construction zone fencing 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting
- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850
- Mobilize equipment fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training Records
- MSDS
- Engineering Surveys
- Other documents as necessary.

Building preparation consists of the following:

- Construction of vestibules
- Construction of Cool down areas
- Construction of Wash down areas

1.2) Quantification - Mobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

3) Task #3 - Building 8A

3.1) Plan/Scope Building 8A

Building 8A, the Recovery Plant, is a two-story structure measuring 239 \times 280 ft. and 37 ft. high. The building consists of a structural steel frame on a reinforced poured concrete foundation, reinforced concrete ground floors, transite interior and exterior siding

panels (insulation material between panels), and transite roof panels. The second floor is primarily steel grating with some concrete flooring.

Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

R1-F02-014 The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF. If any process-related piping or equipment fails the visual inspection criteria, it will be packaged for off-site disposal at NTS Envirocare.

Equipment/System Removal

Significant quantities of process-related piping and equipment are anticipated throughout both the wet and dry sides of Building 8A; therefore, openings of the building (for example, entryways between Buildings 8A and 8C) will be sealed.

All piping and equipment will be removed from the dry side of Building 8A and only process-related piping and equipment will be removed from the wet side of Building 8A.

Non-process piping and equipment on the wet side, along with all conduit, cable, lighting, etc., will remain in the building during structural steel removal.

Wallboard will be removed by: 1) manually detaching the fasteners; and 2) lowering the panels by hand if on ground level, or for elevated removal, lowering the panels using an elevated work platform.

Non-ACM floor tile will be removed by: 1) physically breaking the tiles using a hand-held scraper; 2) removing mastic by applying mastic dissolver and scouring the floor with a hand-held floor scrubber; 3) applying absorbent material (sawdust or cat litter) to remove and undissolved mastic; and 4) shoveling the absorbent into containers.

Floor trenches will be cleaned and the metal trench covers left in place.

The concrete floor within the Muffle Furnace Area will be scabbled to a 1-inch depth on the second floor. Also, any concrete within the first floor of the Muffle Furnace Area that had not been scabbled during the 1998 scabbling technology demonstration (Ref: Implementation Plan for Scabbling Plant 8 Muffle Furnace Area - First Floor, May 1998), will also be scabbled to a depth of one inch.

The contractor will size, segregate, and containerize all interior debris and move the containers to the queue area for disposition at NTS Envirocare.

Transite Removal

Transite siding (1 layer of panels) would likely be removed by: 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal); and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Additional decontamination measures will be required for double transite layers on roof where holdup contamination resides, per Specification Section 07415.

Gutters and down spouts will be removed by: 1) accessing using manlifts; 2) ACM contents wet with amended water; 3) ACM contents manually scooped out; 4) encapsulant applied to the cleaned gutter/spout; 5) disassembled at the joints using mechanical methods; and 6) lowered to the ground in the manlifts.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Windows will be removed by: 1) applying tape to the glass; 2) removing the glazing material using a hand-held "chisel"; and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during Structural Steel Removal.

Fiberglass or Mineral Wool Insulation (Batting) located between the interior and exterior transite panels will be removed by: 1) spraying encapsulant to exposed surfaces; 2) manually rolling the insulation upon itself; and 3) applying amended water for dust suppression, as needed.

R1-F02-014 The contractor will band panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the queue area for disposition at NTS Envirocare.

R1-F02-014 The contractor will size, segregate, and containerize the debris, move the containers to the queue area for disposition at NTS Envirocare.

Acid Brick Removal

Acid Brick will be removed by 1) manually breaking and removing a few brick to create access using a spud bar, 2) removing acid bricks one at a time by hand, 3) dampening surfaces with water to minimize airborne dust, 4) using HEPA vacuum to remove particulates, 5) maintaining localized HEPA ventilation near the work area.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area at the construction zone boundary.

Release Cleaning

Decontamination efforts are assumed to be necessary for the Building 8A wet side where thorium contamination may be encountered in certain areas. Moderate levels of cleaning (high-pressure, low-volume water washing) and lockdown are required throughout the building.

There are two Hazardous Waste Management Units (HWMUs) associated with Building 8A. The Oxidation Furnace Number 1 is HWMU 15 and is inside the building. The Box Furnace (HWMU 14) is located immediately north of Building 8A. In both cases, the equipment within the HWMU will be removed, sized, and containerized and the HWMU area (i.e., concrete foundation/pad) will be decontaminated in accordance with Specification Section 01517. The contractor will wash the areas and collect effluent separately. The contractor will wash the areas until the analytical results indicate that the closure limits have been met. FDF will collect a sample and perform laboratory analysis. Upon approval from FDF, the contractor will combine effluent with other decontamination washwaters and transport water to AWWT.

Structural Steel Removal

The Building 8A structure will be tripped and pulled down to the east, whereupon the structural steel, non-process equipment, and decking will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

3.2) Quantification – Building 8A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

4) Task #4 - Building 8B

4.1) Plan/Scope - Building 8B

Building 8B, the Plant 8 Maintenance Building, is a single-story structure measuring 31 x 42 ft. and 15 ft. high. Building 8B consists of cinder block walls supported on reinforced concrete footings, with a reinforced-poured concrete floor and glass windows.

Structural Dismantlement

All piping and equipment are non-process and will remain in the building during structural dismantlement. The structure will be removed by: 1) administering water spray to wet the concrete before and during dismantlement; 2) use hoe ram or shears to dismantle and size reduce using pushover techniques; and 3) shear steel reinforcements, as needed. The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

4.2) Quantification - Building 8B

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

5) Task #5 - Building 8C

5.1) Plan/Scope - Building 8C

Building 8C, the Rotary Kiln/Drum Reconditioning Building, is a four-story steel structure with steel siding. The structure was built on a reinforced concrete pad. The dimensions of 8C are 50×100 feet x 50 feet in height. Building 8C was never used due to production suspension and is not expected to contain ACM, acid brick, or significant levels of contamination.

Structural Dismantlement

Piping, equipment, siding, Component 8H and Component 8G will be removed to the extent necessary by shearing to trip the structure and the kiln together to the east. Once tripped, the structure, kiln, and all remaining non-process equipment will be sized using a shear. The contractor will containerize the debris and move the containers to the queue area for disposition in the OSDF. The concrete pedestals supporting the rotary kiln will be left in place.

5.2) Quantification - Building 8C

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

6) Task #6 - Building 8D

6.1) Plan/Scope - Building 8D

Building 8D is a single-level building measuring 30 \times 42 ft. and 13 ft. high. Associated with 8D are a below-grade railroad tank car wash pit and a settling basin. Building 8D is a

pre-engineered structure consisting of a structural steel frame with steel siding panels and a sloped steel roof panels. The building is supported on a reinforced poured concrete base.

Structural Dismantlement

The structure, non-process equipment, piping and decking will be dismantled and sized using a shear. Any equipment or piping from the wash pit will also be removed. The contractor will segregate and containerize the debris and move the containers to the queue area for disposition in the OSDF.

6.2) Quantification - Building 8D

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

7) Task #7 - Building 8E

7.1) Plan/Scope - Building 8E

Component 8E is a single-level structure with a structural steel frame and sloped metal roof. It is an extension of the Rotary Kiln/Drum Reconditioning Building (8C). The shelter is 15 feet in height, and shelters an area of reinforced poured concrete that is 40 ft. in length x 15 ft. in width.

Structural Dismantlement

The structure (and any non-process equipmentand piping) will be dismantled and sized using a shear. The contractor will containerize the debris and move the containers to the queue area for disposition in the OSDF.

7.2) Quantification – Building 8E

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

8) Task #8 - Component 8G

8.1) Plan/Scope - Component 8G

This component is a single-story room on the east end of Building 8C. The approach for dismantlement is incorporated into the discussion of Building 8C.

8.2) Quantification - Component 8G

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

1) Task #9 - Component 8H

9.1) Plan/Scope - Component 8H

This component is a single-story room on the west end of Building 8C. The approach for dismantlement is incorporated into the discussion of Building 8C.

9.2) Quantification - Component 8H

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

10) Task #10 - Demobilization

10.1) Plan/Scope - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

10.2) Quantification - Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

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1.5.5. BFDDH - D&D Subcontract - Health and Safety Building

This D&D scope of work will be issued as a task order to the D&D Closure Project contract. This task includes premobilization, mobilization 53A D&D, and demobilization. This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor FTEs are presented in Section 3, and estimated quantities are presented in Section 4.

1) Task #1 - Premobilization

1.1) Plan/Scope - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors
- PLA letter of assent & verification of pre-job meeting
- Pay Item schedule of values
- Baseline/manpower-loaded schedule
- Letter Contractor will abide by FDF PSHSP & addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP
- Temporary facilities SWP
- Temporary utilities SWP

2) Quantification - Premobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are

presented in Section 4: and estimated materials and quantities are presented in Section 4:

Task #2 = Mobilization

2-1) Plan/Scope = Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

Install temporary portable toilets

- Install asbestos trailer (1 singlewide), water (with 5 micron filter dump to sewer), (heat traced) sewer (heat traced)
- Install temporary utilities tie into substation in Building 36 16B water point source at low pressure fire protection system, connect to sanitary sewer at 101% & B 1 x & "C"
- Install construction zone fencing 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting
- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850
- Mobilize equipment fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training Records
- MSDS
- Engineering Surveys
- Other documents as necessary.

Building preparation consists of the following:

- Construction of vestibules
- Construction of Cool down areas
- Construction of Wash down areas

2.2) Quantification = Mobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4.

3) Task #3 - Building 53A

Building 53A is a multilevel building measuring approximately 89 x 221 ft. and 22 ft. high, with two floors and a partial basement under the west section. The building consists of cement block construction on reinforced poured concrete footers and floors, flat reinforced poured concrete roofs, and glass windows.

Upon departure the various building occupants will take their salvageable, equipment with them. These groups may include medical, dosimetry, and lab personnel. Any equipment left behind will be considered waste for disposal.

3.1) Plan/Scope - Building 53A

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using handheld tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM tile will also be removed; being very careful not to break the tile prior to removal and keeping the surfaces wet with amended water.

Cubicle or temporary walls and carpet will be removed.

If any radiologically contaminated, non-salvageable equipment remain (from dosimetry, for example), the equipment will be removed, washed (if necessary), and visually inspected to verify the debris meets the OSDF WAC

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Structural Dismantlement

Windows and the glass contained within the two-story toyer of the building will be contained within the two-story toyer of the building will be contained a hand-fall of the glass; 2) removing the glazing material using a hand-fall of the glazing material using a hand-fall of the 3) lead frames will be removed manually in conjunction with window conover or non-lead frames may be dismantled with the structure.

Non-process piolog, valves, conduit cable, lighting, non-ACM floor tile, etc. will remain in the building during dismantlement of the structure.

The remainder of the above-grade portions of the building, which is predominantly CMU walls and concrete slabs, will be removed by 1) administering water spray to wet the concrete before and during dismantlement; 2) using a concrete shear to dismantle and size reduce using pushover techniques; and 3) shearing steel reinforcements, as needed.

The contractor will size and containerze the remaining commingled debits and move the containers to the queue area for disposition in the OSDF.

3:2) Quantification = Building 53A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

4) Task #8 - Demobilization

4.1) Plan/Scope = Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

4.2) Quantification = Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2. Subcontractor hours are presented in Section 4.

1.5.6 BFDDQ - D&D Subcontract - Liquid Storage

This D&D scope of work will be issued as a task order to the D&D Closure Project contract. This task includes premobilization, mobilization, Building 26A, Component 26B, Buildings 28D, 45A, 80, D&D, and demobilization. This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor FTEs are presented in Section 3, and estimated quantities are presented in Section 4.

1) Task #1 - Premobilization

1.1) Plan/Scope - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors

- PLA letter of assent & verification of pre-job meeting
- Pay Item schedule of values
- Baseline/manpower loaded schedule
- Letter Contractor will abide by FDF PSHSP & addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP
- Temporary facilities SWP
- Temporary utilities SWP

1.2) Quantification - Premobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

2) Task #2 - Mobilization

2.1) Plan/Scope - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

- Install temporary portable toilets
- Install asbestos trailer (1 singlewide), water (with 5 micron filter dump to sewer), (heat traced) sewer (heat traced)
- Install temporary utilities tie into substation in Building 36 water point source at low pressure fire protection system, connect to sanitary sewer at 101st & "B" street.
- Install construction zone fencing 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting
- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850

 Mobilize equipment – fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training Records
- MSDS
- Engineering Surveys
- Other documents as necessary.

Building preparation consists of the following:

- Construction of vestibules
- Construction of Cool down areas
- Construction of Wash down areas

2.2) Quantification – Mobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

3) Task #3 - Building 26A

3.1) 1 Plan/Scope - Building 26A

Building 26A is located south of the Elevated Water Storage Tank (26B). Component 26A is comprised of a steel water storage tank and cement block wall and concrete floor building. The dimensions of the tank are 35 feet in diameter by 22 feet in height. The volume capacity of the tank is approximately 300,000 gallons. The dimensions of the building are $26 \times 50 \times 11$ feet in height.

Structural and Equipment Dismantlement

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during structural removal.

Above-grade concrete walls will be removed by 1) administering water spray to wet the concrete before and during dismantlement, 2) use hoe ram or shears to dismantle and size reduce using pushover techniques, and 3) shear steel reinforcements, as needed.

Structural steel and the tank will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

3.2) Quantification - Building 26A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

4) Task #4 - Component 26B

4.1) Plan/Scope - Component 26B

Component 26B is located north of the Pump House-HP Fire Protection (26A). Component 26B is a steel water storage tank elevated by steel supports to 265 feet above grade. The tank has a diameter of 65 feet, and a capacity of approximately 350,000 gallons.

Structural and Equipment Dismantlement

The storage tank will be felled to the east utilizing shaped charges.

The felled tower will be sized to meet OSDF WAC using a shear.

The Contractor(s) shall containerize the debris and move the container to the que area for disposition in the OSDF.

4.2) Quantification - Component 26B

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

5) Task #5 - Building 28D

5.1) Plan/Scope - Building 28D

Building 28D is a square building located at the west end of 2^{nd} Street. The dimensions of the building are 15 x 15 feet. Building 28D is constructed of wood framing and siding.

Structural and Equipment Dismantlement

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during dismantlement of the structure (using a shear).

The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the que area for disposition in the OSDF.

5.2) Quantification - Building 28D

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

6) Task #6 - Building 45A

6.1) Plan/Scope - Building 45A

Building 45A is a single-story building. It is rectangular shaped, measuring 121×150 ft and 14 ft high. The building consists of a structural steel frame with corrugated metal siding and a poured concrete base and floor. Building 45A was decontaminated in 1988, before conversion for office space, but still has high levels of fixed contamination in the rafters, as well as some ACM piping.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glovebag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using hand-held tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM Floor Tile will be removed by 1) applying amended water, 2) physically breaking the tiles using hand-held scrapers, 3) remove mastic by applying mastic dissolver and scouring the floor with a hand-held floor scrubber, 4) apply absorbent material (sawdust or cat litter) to remove any dissolved mastic.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Structural and Equipment Dismantlement

Non-process equipment piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

Structural steel and metal siding will be dismantled by shearing.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the que area for disposition in the OSDF.

6.2) Quantification - Building 45A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

7) Task #7 - Building 80

Building 80 is a single story building approximately 60 X 170 ft. and 15 ft. high, consists of a structural steel frame on a reinforced poured concrete base and floor with non-insulated corrugated metal siding and roofing. Building 80 was constructed for the storage of non-liquid RCRA hazardous waste and is recognized as HWMU #29.

7.1) Plan/Scope - Building 80

HWMU Cleaning

RCRA CERCLA Intrgrated Closure of HWMU #29 requires at least rinsing and rinseate sampling during the decontamination stage of D&D. Additional decontamination of Building 80 is not anticipated.

Structural Dismantlement

The structure and interior non-process equipment and lighting will be dismantled and sized using a shear. The Contractor will segregate and containerize the debris and move the containers to the queue area for disposition in the OSDF.

7.2) Quantification - Building 80

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

8) Task #8 - Demobilization

8.1) Plan/Scope - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

8.2) Quantification – Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

1.5.7 BFDDP - D&D Subcontract - Pilot Plant

This D&D scope of work will be issued as a task order to the D&D Closure Project contract. This task includes premobilization, mobilization, Building 13A D&D, Building 13B D&D, Building 13C D&D, Component 13D D&D, Building 37 D&D, Building 54A D&D, Building 54B D&D, Building 54C D&D, and demobilization. This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor FTEs are presented in Section 3, and estimated quantities are presented in Section 4.

1) Task #1 - Premobilization

1.1) Plan/Scope - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors
- · PLA letter of assent & verification of pre-job meeting
- Pay Item schedule of values
- Baseline/manpower loaded schedule
- Letter Contractor will abide by FDF PSHSP & addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP
- Temporary facilities SWP
- Temporary utilities SWP

1.2) Quantification - Premobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

2) Task #2 - Mobilization

2.1) Plan/Scope - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

- Install temporary portable toilets
- Relocate and install T-93 (4-plex) and T-131 (doublewide) and install all utilities
- Install asbestos trailer (1 singlewide), water (with 5 micron filter dump to sewer), (heat traced) sewer (heat traced)
- Install temporary utilities tie into substation in Building 36 water point source at low pressure fire protection system, connect to sanitary sewer at 101st & "B" street.
- Install construction zone fencing 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting
- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850
- Mobilize equipment fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training Records
- MSDS
- Engineering Surveys
- Other documents as necessary.

Building preparation consists of the following:

- Construction of vestibules
- Construction of Cool down areas
- Construction of Wash down areas

2.2) Quantification – Mobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

3) Task #3 - Building 13A

3.1) Plan/Scope - Building 13A

Building 13A is a multilevel processing facility with the dimensions 63×155 ft. 80% of the building is 35 ft. high; the southern 20% of the building, where the solvent extraction process was located, is 53 ft. high. The building is constructed of cement block on poured reinforced concrete floors, reinforced concrete roof, a building shell consisting of interior and exterior transite siding, and large multi-pane windows. The mezzanine floor, of reinforce poured concrete, is supported by a structural steel frame.

Building 13A houses tanks, columns, filters, ovens, size reduction equipment and associated piping, conduit, duct and appurtenances. ACM insulation covers most of the buildings piping.

There is a dust collector which serviced Building 13A. This dust collector resides at the northwest corner of 13A and just to the south of 13B. The dust collector is supported by a structural steel frame and anchored in concrete. The collector will be contained and removed and the structural steel will be dismantled by shearing.

Due to anticipated elevated air activity, Powered Air Purifying Respirators (PAPRs) will be worn during various parts of the building D&D. Prior to any activity in the building, a temporary air change unit (with HEPA and activated carbon filtration) will be installed to lower thoron readings during interior equipment removal, acid brick removal, and scabbling.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically

cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM tile will also be removed; being very careful not to break the tile prior to removal and keeping the surfaces wet with amended water

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Equipment/System Dismantlement

All piping and equipment will be removed during this phase of work; however, conduit, cable, lighting, etc. will remain in the building during structural dismantlement.

Wallboard will be removed by: 1) manually detaching the fasteners; and 2) lowering the panels by hand if on ground level, or for elevated removal, lowering the panels using an elevated work platform.

Non-ACM floor tile will be removed by: 1) physically breaking the tiles using a hand-held scraper; 2) removing mastic by applying mastic dissolver and scouring the floor with a hand-held floor scrubber; 3) applying absorbent material (sawdust or cat litter) to remove and undissolved mastic; and 4) shoveling the absorbent into containers.

Utility piping contained within the piping access (utility) tunnels in the basement will be sectioned, removed from the pipe racks and/or hangers, and left on the basement floor for later removal.

Acid brick will be removed by: 1) manually breaking and removing a few bricks to create access using a spud bar; 2) removing acid bricks one at a time by hand; 3) dampening surfaces with water to minimize airborne dust; 4) removing acid brick membrane; 5) using HEPA vacuum to remove particulates; and 6) maintaining localized HEPA ventilation near the work area.

The contractor will containerize the acid brick and associated membrane together at the construction zone boundary.

The concrete floor within the Southern Extraction Process Area of Building 13A will be scabbled to a depth of 2" to remove elevated levels of technetium-99.

Wallboard will be removed by: 1) manually detaching the fasteners; and 2) lowering the panels by hand if on ground level, or for elevated removal, lowering the panels using an elevated work platform.

Prior to opening the building to the environment, release cleaning will be performed in accordance with D&D Specification Section 01517. Release cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residues, 2) using high pressure, low volume water washing, 3) applying fixative to areas which do not meet the release cleaning criteria.

Transite Removal

Transite siding (2 layers of panels) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts. All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Fiberglass or Mineral Wool Insulation (Batting) located between the interior and exterior transite panels will be removed by 1) spraying encapsulant to exposed surfaces, 2) manually rolling the insulation upon itself, 3) applying amended water for dust suppression, as needed.

Windows will be removed by: 1) applying tape to the glass; 2) removing the glazing material using a hand-held "chisel"; and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during structural dismantlement.

The contractor will band panels together, place panels on a pallet, wrap the palletized panels in 6-mil poly, and move to the queue area for disposition in the OSDF.

The contractor will size, segregate, and containerize the batting and windows and move the container to the queue area for disposition in the OSDF. The gutter debris will be drummed for off-site disposal.

Structural and Equipment Dismantlement

Above-grade concrete walls and roofing will be removed by: 1) administering water spray to wet the concrete before and during dismantlement; 2) using a wrecking ball to collapse the structure to the ground; 3) using a concrete shear to size reduce the concrete to meet OSDF Category 2 size criteria; and 4) shearing steel reinforcements, as needed.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

3.2) Quantification - Building 13A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

4) Task #4 - Component 13B

4.1) Plan/Scope - Component 13B

Building 13B is a single-level structure measuring 30 x 60 ft. and 11 ft. high. The building consists of concrete block walls supported on reinforced concrete footings, with a reinforced poured concrete floor and roof, and glass windows.

The maintenance building has two offices which are located in the building on the south side. These offices are partitioned by pre-fabricated wall panel walls, and contain dropped ceilings. The remainder of the building has exposed concrete floors and exposed roof deck above.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

Release Cleaning

R1-F02-017 Prior to opening the building to the environment, release cleaning will be performed in accordance with D&D Specification Section 01517. Release cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residues; 2) using high pressure. low volume water washing; 3) applying fixative to areas which do not meet the release cleaning criteria.

Structural and Equipment Dismantlement

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during structural dismantlement.

Wallboard will be removed by: 1) manually detaching the fasteners; and 2) lowering the panels by hand if on ground level, or for elevated removal, lowering the panels using an elevated work platform.

Non-ACM floor tile will be removed by: 1) physically breaking the tiles using a hand-held scraper; 2) removing mastic by applying mastic dissolver and scouring the floor with a hand-held floor scrubber; 3) applying absorbent material (sawdust or cat litter) to remove and undissolved mastic; and 4) shoveling the absorbent into containers.

Windows will be removed by: 1) applying tape to the glass; 2) removing the glazing material using a hand-held "chisel"; and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during D&D.

Above-grade concrete walls will be removed by: 1) administering water spray to wet the concrete before and during dismantlement; 2) using a concrete shear to dismantle and size reduce using pushover techniques; and 3) shearing steel reinforcements, as needed.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

4.2) Quantification - Component 13B

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

5) Task #5 - Building 13C

5.1) Plan/Scope - Building 13C

Building 13C consists of a single-level, high concrete block (masonry) wall structure, 12×16 ft. and 8 ft. high, supported on reinforced concrete foundations. The building has a reinforced concrete floor and a sloping shingled roof. It contains three pumps on concrete pedestals.

Four sump tanks off of the south wall are associated with the structure. The tanks and all associated piping will be removed; the containment berm will be left in place for removal during soil and below-grade excavation.

Interior Asbestos Abatement

ACM piping (if any) will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and

8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

Structural and Equipment Dismantlement

All interior piping, valves, and other equipment will be removed prior to dismantlement.

The four exterior sump tanks and associated piping will be size reduced using an oxy-acetylene torch.

Windows will be removed by: 1) applying tape to the glass; 2) removing the glazing material using a hand-held "chisel"; and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during D&D.

Above-grade concrete walls will be removed by administering water spray to wet the concrete before and during dismantlement and using a concrete shear to dismantle and size reduce using pushover techniques.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

5.2) Quantification – Building 13C

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

6) Task #6 - Component 13D

6.1) Plan/Scope - Component 13D

Component 13D is an aboveground storage tank farm. The tank farm consists of five vertical cylindrical steel tanks inside a rectangular concrete containment area measuring 28 x 45 ft. with a wall height of 18 in. aboveground. Two of the five tanks are considered to be HWMUs because of the storage of thorium nitrate tetrahydrate liquid.

Equipment Dismantlement

The tanks will be flushed with water and the rinseate sampled until the analysis indicates the tanks are no longer RCRA-hazardous. The storage tanks and any associated piping will then be dismantled and size reduced utilizing an oxy-acetylene torch. The containment berm will be left in place for removal during soil and below-grade excavation. All other debris will be containerized for OSDF disposal.

6.2) Quantification - Component 13D

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

7) Task #7 - Building 37

7.1) Plan/Scope - Building 37

Building 37 is a single-story building measuring 52 x 122 ft. and 25 ft. high. The building consists of a structural steel frame anchored in a reinforced concrete foundation and a reinforced concrete floor and roof, cement block walls, and glass windows. The building is connected to the east side of Building 54A. The function of Building 37 was to test out new processes for uranium and thorium production and recovery.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

Release Cleaning

R1-F02-017 Prior to opening the building to the environment, release cleaning will be performed in accordance with D&D Specification Section 01517. Release cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residues, 2) using high pressure, low volume water washing, 3) applying fixative to areas which do not meet the release cleaning criteria.

Structural Dismantlement

All piping and equipment will be removed from this building; however, conduit, cable, lighting, etc. will remain in the building during structural dismantlement. Due to the potential for unexpected chemicals to be present in this building, PAPRs will be worn during piping and equipment removal.

Prior to opening the building to the environment, release cleaning will be performed in accordance with D&D Specification Section 01517.

Above-grade concrete walls will be removed by: 1) administering water spray to wet the concrete before and during dismantlement; 2) using a concrete shear to dismantle and size reduce using pushover techniques; and 3) shearing steel reinforcements, as needed.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

7.2) Quantification - Building 37

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

8) Task #8 - Building 54A

8.1) Plan/Scope - Building 54A

Building 54A is an irregularly shaped building with dimensions 165×123 ft. and 44 ft. high. It shares an entire western wall with Building 13A and its eastern wall with Building 37. The building has several distinct parts; the various parts of the overall building contain different types of construction materials

The 61 \times 81 ft. main processing area (also known as Building 54A North) consists of a structural steel frame on a reinforce concrete base, reinforced poured concrete floor, transite siding panels, and glass windows.

A transformer room and utility room are attached to the north wall of the main processing area. A mechanical room, a hallway, and a power generator room are attached to the east wall of the main processing area. A control room, electrical room, and battery room are attached to the south wall of the main processing area.

The autoclave section, the southern portion of Building 54A, consists of a structural steel frame on poured reinforced concrete base with poured reinforced concrete floor, steel siding panels, and a sloped steel roof. The roof is of composite construction, having a corrugated steel deck covered with rigid insulation and five-ply built-up roofing. There are three autoclaves that contain asbestos insulation.

Due to anticipated elevated air activity, PAPRs will be worn up to and including the release cleaning phase of building D&D.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM tile will also be removed, being very careful not to break the tile prior to removal and keeping the surfaces wet with amended water.

Equipment Dismantlement

All piping and equipment will be removed or verified to be locked-down during release cleaning; conduit, cable, lighting, etc. can remain in the building until dismantlement of the structure.

There is known holdup/residue material in Building 54A. This material is under a single piece of equipment and will be removed during D&D activities (assume a two-day activity).

Non-ACM floor tile will be removed by: 1) physically breaking the tiles using a hand-held scraper; 2) removing mastic by applying mastic dissolver and scouring the floor with a hand-held floor scrubber; 3) applying absorbent material (sawdust or cat litter) to remove and undissolved mastic; and 4) shoveling the absorbent into containers.

Wallboard will be removed by: 1) manually detaching the fasteners; and 2) lowering the panels by hand if on ground level, or for elevated removal, lowering the panels using an elevated work platform.

Release Cleaning

R1-F02-017 Prior to opening the building to the environment, release cleaning will be performed in accordance with D&D Specification Section 01517. Release cleaning will be performed by it) HEPA vacuuming and/or wer wipe any loose contamination or residues, 2) using high pressure, low volume water washing, 3) applying fixative to areas which do not meet the release cleaning criteria.

Transite Removal

Transite siding (2 layers of panels) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts.

Fiberglass or Mineral Wool Insulation (Batting) located between the interior and exterior transite panels will be removed by 1) spraying encapsulant to exposed surfaces, 2) manually rolling the insulation upon itself, 3) applying amended water for dust suppression, as needed.

Prior to opening the building to the environment, release cleaning will be performed in accordance with D&D Specification Section 01517.

Windows will be removed by: 1) applying tape to the glass; 2) removing the glazing material using a hand-held "chisel"; and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during D&D.

The contractor will band panels together, place panels on a pallet, wrap the palletized panels in 6-mil poly, and move to the queue area for disposition in the OSDF.

The contractor will size, segregate, and containerize the batting and windows and move the container to the queue area for disposition in the OSDF. The gutter debris will be drummed for off-site disposal.

Structural Removal

Above-grade concrete walls and roofing will be removed by: 1) administering water spray to wet the concrete before and during dismantlement; 2) using a wrecking ball to collapse the structure to the ground; 3) using a concrete shear to size reduce the concrete to meet OSDF Category 2 size criteria; and 4) shearing steel reinforcements, as needed.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF

8.2) Quantification – Building 54A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

9) Task #9 - Building 54B

9.1) Plan/Scope - Building 54B

Building 54B is a single-level building. The shelter is rectangular and has a steel frame structure 50 x 74 ft. and 10 ft. high, with a reinforced concrete foundation and floor and a metal roof. The lower panels of the shelter are steel while the upper panels in the roof gables are transite. Building 54B stored Pilot Plant materials such as uranium tetrafluoride.

Interior Asbestos Removal

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM tile will also be removed; being very careful not to break the tile prior to removal and keeping the surfaces wet with amended water

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Equipment Removal

All piping and equipment will be removed during this phase of work; however, conduit, cable, lighting, etc. will remain in the building during structural dismantlement.

Wallboard will be removed by: 1) manually detaching the fasteners; and 2) lowering the panels by hand if on ground level, or for elevated removal, lowering the panels using an elevated work platform.

Non-ACM floor tile will be removed by: 1) physically breaking the tiles using a hand-held scraper; 2) removing mastic by applying mastic dissolver and scouring the floor with a hand-held floor scrubber; 3) applying absorbent material (sawdust or cat litter) to remove and undissolved mastic; and 4) shoveling the absorbent into containers.

Utility piping contained within the piping access (utility) tunnels in the basement will be sectioned, removed from the pipe racks and/or hangers, and left on the basement floor for later removal.

Acid brick will be removed by: 1) manually breaking and removing a few bricks to create access using a spud bar; 2) removing acid bricks one at a time by hand; 3) dampening surfaces with water to minimize airborne dust; 4) removing acid brick membrane; 5) using HEPA vacuum to remove particulates; and 6) maintaining localized HEPA ventilation near the work area.

The contractor will containerize the acid brick and associated membrane together at the construction zone boundary.

The concrete floor within the Southern Extraction Process Area of Building 13A will be scabbled to a depth of 2" to remove elevated levels of technetium-99.

Wallboard will be removed by: 1) manually detaching the fasteners; and 2) lowering the panels by hand if on ground level, or for elevated removal, lowering the panels using an elevated work platform.

Transite Removal

Transite siding and roofing (single layers of panels) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

The contractor will band transite panels together, place panels on a pallet, and wrap the palletized panels in 6-mil poly. The contractor will size and containerize the structural steel and windows in roll-off boxes and will drum any gutter debris. All containers will be moved to the queue area for disposition in the OSDF (transite, steel, and windows) or off site (gutter debris).

Structural Dismantlement

The remainder of the structure will be dismantled and sized using a shear.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

9.2) Quantification – Building 54B

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

10) Task #10 - Building 54C

10.1) Plan/Scope - Building 54C

Building 54C is constructed of a structural steel frame supported on a reinforced poured concrete base, corrugated aluminum siding, and metal roof. The building has an aluminum

canopy that shelters the east side from the weather. The dimensions of the building are 20×48 ft. and 19 ft. high.

Building 54C houses three ammonia dissociators, associated equipment, piping, conduit, and other necessary appurtenances. A steel stairway on the west face of Building 54C, which services the second floor of Building 13A, will be removed as part of Building 54C.

Interior Asbestos Removal

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Release Cleaning

R1-F02-017 Prior to opening the building to the environment, release cleaning will be performed in accordance with D&D Specification Section 01517. Release cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residues, 2) using high pressure, low volume water washing, 3) applying fixative to areas which do not meet the release cleaning criteria.

Structural And Equipment Dismantlement

The remaining structure, ammonia dissociators, and stairway will be dismantled using a shear. The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

10.2) Quantification - Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

11) Task #11 - Demobilization

11.1) Plan/Scope - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

11.2) Quantification - Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

1.5.8 BFDDB - D&D Subcontract - Laboratory

This D&D scope of work will be issued as a task order to the D&D Closure Project contract. These tasks include 1) premobilization, 2) mobilization, 3) Building 15A D&D, 4) Building 15B D&D, 5) Building 15C D&D, and 6) demobilization.

1) Task #1 - Premobilization

1.1) Plan/Scope - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors
- PLA letter of assent and verification of pre-job meeting
- · Pay Item schedule of values
- Baseline/manpower loaded schedule
- Letter Contractor will abide by FDF PSHSP & addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP
- Temporary facilities SWP
- Temporary utilities SWP

1.2) Quantification - Premobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

2) Task #2 - Mobilization

2.1) Plan/Scope - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

- Install temporary portable toilets
- Install asbestos trailer (1 singlewide), water (with 5 micron filter dump to sewer), (heat traced) sewer (heat traced)
- Install temporary utilities tie into substation in Building 36 water point source at low pressure fire protection system, connect to sanitary sewer at 101st & "B" street.
- Install construction zone fencing 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting
- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850
- Mobilize equipment fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training Records
- MSDS
- Engineering Surveys
- Other documents as necessary.

Building preparation consists of the following:

- Construction of vestibules
- Construction of Cool down areas
- Construction of Wash down areas

2.2) Quantification - Mobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

3) Task #3 - Building 15A

3.1) Plan/Scope - Building 15A

Building 15A has historically housed the analytical and chemical process laboratories for the FEMP. Building 15A is a multilevel, irregularly shaped building constructed of concrete block walls and concrete floors. The dimensions of the building are 253 x 292 feet and 20 feet high. The main floor of the building is composed of north, central, south, and east/west corridors. Courtyards are located between the south and central corridors and between the central and north corridors. A basement area is located beneath the western portion of the building. Piping access tunnels, which are accessible through access ways located in the first floor east corridor, run at basement level below the north and central corridors and join the basement on the west. A laboratory sump is located in the north courtyard. The Laboratory Building has been renovated which extended the northern portion and added a second story over the northern portion extension.

Interior Asbestos Abatement

ACM piping and duct insulation will be removed by glovebag containments a room at a time. In some instances, asbestos may be removed from an entire room as a large-scale asbestos abatement activity. However, the standard technique for ACM removal will be as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM tile will also be removed; being very careful not to break the tile prior to removal and keeping the surfaces wet with amended water. Any lab cabinetry that lies on top of ACM tile will be removed to gain access to the tile.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Structural and Equipment Dismantlement

The standard chemical hoods and associated ductwork will be disassembled and removed as process-related debris. These hoods were used for sample acid dissolutions using nitric, hydrofluoric, and hydrochloric acids and, as such, will require disposal at Envirocare. The removal of the Building 15A perchloric hoods and associated duct work must be performed using extreme caution due to the fact that over time perchloric acid will form perchlorate crystals which may be shock sensitive. These hoods will be decontaminated prior and during disassembly by removing any residue with water.

Cabinetry, non-process piping, valves, conduit, cable, lighting, etc. will remain in the building for inclusion with structural removal.

Wallboard will be removed by: 1) manually detaching the fasteners; and 2) lowering the panels by hand if on ground level, or for elevated removal, lowering the panels using an elevated work platform.

Non-ACM floor tile will be removed by: 1) physically breaking the tiles using a hand-held scraper; 2) removing mastic by applying mastic dissolver and scouring the floor with a hand-held floor scrubber; 3) applying absorbent material (sawdust or cat litter) to remove and undissolved mastic; and 4) shoveling the absorbent into containers.

Utility piping contained within the piping access (utility) tunnels in the basement will be sectioned, removed from the pipe racks and/or hangers, and left on the basement floor for later removal.

Windows will be removed by: 1) applying tape to the glass; 2) removing the glazing material using a hand-held "chisel"; and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during structural dismantlement.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Above-grade concrete walls and roof will be removed by 1) administering water spray to wet the concrete before and during dismantlement, 2) use hoe ram or shears to dismantle and size reduce using pushover techniques, and 3) shear steel reinforcements, as needed.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Once the above-grade structure has been removed, the contractor will use a hoe ram to break through the first floor concrete slab, thereby exposing the basement and tunnels. The piping will be removed and containerized; the concrete rubble will be left in the basement for removal during below-grade excavation.

3.2) Quantification – Building 15A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

4) Task #4 - Building 15B

4.1) Plan/Scope - Building 15B

Building 15B is a concrete block building used for the laboratory chemical storage. The CMU structure will be removed by: 1) administering water spray to wet the concrete before and during dismantlement; 2) use hoe ram or shears to dismantle and size reduce using pushover techniques; and 3) shear steel reinforcements, as needed. The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

4.2) Quantification - Building 15B

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

5) Task #5 - Building 15C

5.1) Plan/Scope - Building 15C

Building 15C is a small room that is contained within the structure of the Laboratory (Building 15A) and will, therefore, be dismantled as a part of Building 15A.

5.2) Quantification - Building 15C

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

6) Task #6 - Demobilization

6.1) Plan/Scope - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities

• Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

6.2) Quantification - Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

1.5.9 BFDDA - D&D Subcontract - Administration (Includes Electrical Complex)

This D&D scope of work will be issued as a task order to the D&D Closure Project contract. This task includes premobilization, mobilization, Building 11, 14A, 14B, 20K, 53A, 53B D&D, and demobilization. This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor FTEs are presented in Section 3, and estimated quantities are presented in Section 4.

1) Task #1 - Premobilization

1.1) Plan/Scope - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors
- PLA letter of assent & verification of pre-job meeting
- Pay Item schedule of values
- Baseline/manpower loaded schedule
- Letter Contractor will abide by FDF PSHSP & addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP
- Temporary facilities SWP
- Temporary utilities SWP

1.2) Quantification - Premobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

2) Task #2 – Mobilization

2.1) Plan/Scope - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

- Install temporary portable toilets
- Install asbestos trailer (1 singlewide), water (with 5 micron filter dump to sewer), (heat traced) sewer (heat traced)

R1-F02-002

- Install temporary utilities tie into substation in Building 36 16B water point source at low pressure fire protection system, connect to sanitary sewer at 101st & B 1st & CT street.
- Install construction zone fencing 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting
- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850
- Mobilize equipment fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training Records
- MSDS
- Engineering Surveys
- Other documents as necessary.

Building preparation consists of the following:

- Construction of vestibules
- Construction of Cool down areas
- Construction of Wash down areas

2.2) Quantification - Mobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

3) Task #3 - Building 11

3.1) Plan/Scope - Building 11

Building 11 is a two-story structure that measures approximately 230 x 322 ft. and 30 ft. high. Building 11 consists of cinder block construction on reinforced poured concrete footers with reinforced poured concrete floors, glass windows, and a flat reinforced poured concrete roof.

Building 11 was used for several purposes, including the FEMP cafeteria (partially converted to office space), locker rooms, offices, training and conference rooms, and laundry facilities.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM tile will also be removed; being very careful not to break the tile prior to removal and keeping the surfaces wet with amended water.

Cubicle or temporary walls and carpet will be removed.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Structural and Equipment Dismantlement

Windows will be removed by: 1) applying tape to the glass; 2) removing the glazing material using a hand-held "chisel"; and 3) lead frames will be removed manually in

conjunction with window removal or non-lead frames may be dismantled with the structure.

Piping and equipment in the laundry area will be disconnected and removed, washed, and visually inspected to verify the debris meets the OSDF WAC. Non-process piping, valves, conduit, cable, lighting, non-ACM floor tile, etc. will remain in the building during dismantlement of the structure.

The remainder of the above-grade portions of the building, which is predominantly CMU walls and concrete slabs, will be removed by: 1) administering water spray to wet the concrete before and during dismantlement; 2) using a concrete shear to dismantle and size reduce using pushover techniques; and 3) shearing steel reinforcements, as needed.

The contractor will size and containerize the remaining commingled debris and move the containers to the queue area for disposition in the OSDF.

3.2) Quantification - Building 11

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

4) Task #4 - Building 14A

4.1) Plan/Scope - Building 14A

Building 14A is an irregularly shaped two-level structure measuring 143 x 240 ft. and 24 ft. high. Building 14A is constructed of cinder block walls supported on reinforced concrete footers with poured concrete floors. The building comprises a central hallway with east and west wings, and a partial basement is located under the west wing. Building 14A houses the main offices for site management, the main mailroom, central reproduction and drafting, central computing, file storage, and the Emergency Operations Center. The building is also equipped with several restrooms/locker rooms.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using handheld tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM tile will also be removed; being very careful not to break the tile prior to removal and keeping the surfaces wet with amended water.

Cubicle or temporary walls and carpet will be removed.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Structural and Equipment Dismantlement

Windows will be removed by: 1) applying tape to the glass; 2) removing the glazing material using a hand-held "chisel"; and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be dismantled with the structure.

Non-process piping, valves, conduit, cable, lighting, non-ACM floor tile, etc. will remain in the building during dismantlement of the structure.

The remainder of the above-grade portions of the building, which is predominantly CMU walls and concrete slabs, will be removed by: 1) administering water spray to wet the concrete before and during dismantlement; 2) using a concrete shear to dismantle and size reduce using pushover techniques; and 3) shearing steel reinforcements, as needed.

The contractor will size and containerize the remaining commingled debris and move the containers to the queue area for disposition in the OSDF.

4.2) Quantification - Building 14A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

5) Task #5 - Building 14B

5.1) Plan/Scope - Building 14B

Component 14B is a diesel powered electrical generator located near the northwest corner of the Administration Building (14A). The component contains a diesel-powered engine, a diesel fuel tank, an electrical generator and a cement dike built under and around the diesel fuel tank.

Equipment Dismantlement

The generator, tank and other metallic components of Component 14B will be dismantled and sized using a hydraulic shear and containerized in roll-off-boxes for transportation to the OSDF. The concrete dike will be left in place for removal during at- and below-grade excavation.

5.2) Quantification – Building 14B

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

6) Task #6 - Component 20K

6.1) Plan/Scope - Component 20K

Component 20K consists if two (2) cooling towers that are constructed out of galvanized steel, one pump house skid which contains three (3) pumps and a control room. The piping is plastic and carbon steel. The system ties into the existing chilled water system and DW system.

Structural and Equipment Dismantlement

Non-process piping, valves, conduit, cable, lighting, non-ACM floor tile, etc. will remain in the building during dismantlement of the structure.

The remainder of the above-grade portions of the structure, which is predominantly metal cooling tower and concrete slabs, will be removed by: 1) administering water spray to wet the structure before and during dismantlement; 2) using a shear to dismantle and size reduce using pushover techniques; and 3) shearing steel reinforcements, as needed.

The contractor will size and containerize the remaining commingled debris and move the containers to the queue area for disposition in the OSDF.

6.2) Quantification - Component 20K

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

7) <u>Task #7 – Building 53B</u>

Building 53B consists of a cement block wall and concrete floor construction with the approximate dimensions of 36 x 72 ft. and 15 ft. high. Building 53B is a radiologically shielded structure housing highly sensitive radiation detection equipment. The facility is utilized to obtain internal radiation measurements of on-site employees. The measurements are generally for uranium content of the lungs.

It is assumed that the in-vivo equipment is salvageable and will be removed prior to turnover of the building to the D&D project. Any equipment left behind will be considered waste for removal and disposal.

7.1) Plan/Scope - Building 53B

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM tile will also be removed; being very careful not to break the tile prior to removal and keeping the surfaces wet with amended water.

Cubicle or temporary walls and carpet will be removed.

Wallboard will be removed by: 1) manually detaching the fasteners; and 2) lowering the panels by hand if on ground level, or for elevated removal, lowering the panels using an elevated work platform.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Structural Dismantlement

Windows will be removed by: 1) applying tape to the glass; 2) removing the glazing material using a hand-held "chisel"; and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be dismantled with the structure.

Non-process piping, valves, conduit, cable, lighting, non-ACM floor tile, etc. will remain in the building during dismantlement of the structure.

The remainder of the above-grade portions of the building, which is predominantly CMU walls and concrete slabs, will be removed by: 1) administering water spray to wet the concrete before and during dismantlement; 2) using a concrete shear to dismantle and size reduce using pushover techniques; and 3) shearing steel reinforcements, as needed.

The contractor will size and containerize the remaining commingled debris and move the containers to the queue area for disposition in the OSDF.

7.2) Quantification – Building 53B

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

R1-F02-047

8) Task #8 = Building 46

8.1) Plan/Scope - Building 46

Building 46 stores forklifts, trucks, and other heavy equipment and is a single-story building, approximately 220 x 59 ft. It is a pre-engineered facility consisting of a structural steel frame on a reinforced poured concrete base, sloped steel roof panels, concrete/masonry block walls, and glass windows.

Structural and Equipment Dismantlement

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

Windows will be removed by 1) applying tape to the glass, 2) removing the glazing material using a hand-held "chisel", and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during Masonry/Concrete Removal.

Above-grade concrete walls, roof, and structural supports will be removed by 1) administering water spray to wet the concrete before and during dismantlement, 2) use hoe ram or shears to dismantle and size reduce using pushover techniques, and 3) shear steel reinforcements, as needed:

Structural steel, metal siding, and roof will be dismantled by shear.

The Contractor will size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

8.2) Quantification = Building 46

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4.

9) Task #9 - Building 31 A

9.1) Plan/Scope Building 31 A

The Engine House/Garage contained HWMU No.3 for which OEPA Closure Certification Acceptance was received on June 6, 1996. The garage performs repair work and preventative maintenance on the vehicles. Spills, which occur on the concrete floor are cleaned with a floor scrubber. A sewer system in the building collects the water from the floor, which is sampled before disposition to the AWWT. The building is single-story cinder block with a sloped steel panel roof (with structural supports) and concrete floor.

R1-F02-047 Three aboveground fuel tanks are also included with the building. Emergency power generator and fuel tank are included with the building.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glovebag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using handheld tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM: Floor Tile will be removed by 1) applying amended water, 2) physically breaking the tiles using hand-held scrapers, 3) remove mastic by applying mastic dissolver and scouring the floor with a hand-held floor scrubber, 4) apply absorbent material (sawdust or cat litter) to remove any dissolved mastic.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Structural and Equipment Dismantlement

Tanks and vessels will sheared during structural demolition using water spray for dust control and the existing concrete pad (with additional sandbagged curbing for run-off control)

Containments are not required for equipment/system removal.

Non-process piping, valves, conduit, cable, lighting, etc. will also remain intact until structural demolition-

Above grade concrete walls, roof, and structural supports will be removed by 1) administering water spray to wet the concrete before and during dismantlement. 2) use not rain or shears to dismantle and size reduce using pushover techniques, and 3) shear seed rainforcements, as needed.

Metal reciting and structural steel will be dismantled by shear.

The Contractor will size, segregate, and containerize the debus and move the container to the debus area for disposition in the OSDF.

9.2) Quantification Building 31A

This work will be concluded by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2. Subcontractor hours are presented in Section 4.

R1-F02-047

10) Task #8 - Demobilization

10:1) Plan/Scope - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

10.2) Quantification - Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4.

This D&D scope of work will be issued as a task order to the D&D Closure Project contract. This task includes premobilization, mobilization. Building 31A D&D, Building 46 D&D, and demobilization. This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2. Subcontractor FTEs are presented in Section 3, and estimated quantities are presented in Section 4.

1.5.10 BFDDE - D&D Subcontract - East Warehouse

This D&D scope of work will be issued as a task order to the D&D Closure Project contract. These tasks include 1) premobilization, 2) mobilization, 3) Component 20D D&D, 4) Building 77 D&D, 5) Building 79 D&D, 6) Building 82A D&D, and 7) demobilization.

1) Task #1 - Premobilization

1.1) Plan/Scope - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors

- PLA letter of assent & verification of pre-job meeting
- Pay Item schedule of values
- Baseline/manpower loaded schedule
- Letter Contractor will abide by FDF PSHSP & addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP
- Temporary facilities SWP
- Temporary utilities SWP

1.2) Quantification - Premobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

2) Task #2 - Mobilization

2.1) Plan/Scope – Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

- Install temporary portable toilets
- Install asbestos trailer (1 singlewide), water (with 5 micron filter dump to sewer), (heat traced) sewer (heat traced)
- Install temporary utilities tie into substation in Building 36 water point source at low pressure fire protection system, connect to sanitary sewer at 101st & "B".
- Install construction zone fencing 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting
- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850

 Mobilize equipment – fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training Records
- MSDS
- Engineering Surveys
- Other documents as necessary.

Building preparation consists of the following:

- Construction of vestibules
- Construction of Cool down areas
- Construction of Wash down areas

2.2) Quantification – Mobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

3) Task #3 - Component 20D

3.1) Plan/Scope - Component 20D

Component 20D (Elevated Potable Water Storage Tank) is a steel 21,000 gallon water storage tank with six structural steel columns and a center stand pipe on concrete footings measuring 100 feet high. The tank portion is cylindrically shaped, measuring approximately 30 feet in diameter and 40 feet tall. There is an approximate 8'x8'x8' transite pump house at the base of the water tank.

Interior Asbestos Abatement

The center stand pipe is insulated with asbestos tar paper. The stand pipe will be enclosed using scaffolding and plastic sheeting. The tar paper and non asbestos block will be using band saws, reciprocating saws, or other means necessary. After the asbestos and block have been removed the metal pipe will be encapsulated, the enclosure tested for airborne ACM and the enclosure dismantled.

The contractor shall size, segregate, and containerize the debris and move the container to the queuing area for disposition in the OSDF.

Structural and Equipment Dismantlement

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

The Contractor will size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

The elevated water tower will be brought to the ground by mechanically cutting and tripping. The structure steel and tank will be sheared to the size criteria on the ground.

The Contractor(s) shall size, segregate, and containerize the debris and move the containers to the queuing area for disposition in the OSDF.

Exterior Asbestos Abatement

Transite siding (1 layer of panels) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels by hand.

Transite roofing (1 layer of panels) would likely be removed by 1) spraying encapsulant on the interior and exterior side of the panels using a hand-held sprayer by workers on ground or from a ladder, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels using a ladder or manlift, 4) spraying encapsulant on all previously unexposed surfaces of panels.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

The Contractor shall band panels together, place panels on a pallet and move to the queuing area for disposition in the OSDF.

3.2) Quantification - Component 20D

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

4) Task #4 - Building 77

4.1) Plan/Scope - Building 77

Building 77 (Finished Products Warehouse) is a single-level rectangular building measuring Approximately 120'x 162'x 12' high. Building 77 consists of a concrete floor and a structural steel frame with metal siding and roofing panels. The building is supported by a concrete foundation on grade.

Structural and Equipment Dismantlement

No process-related equipment or materials have been identified.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the queuing area for disposition in the OSDF.

Structural steel will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queuing area for disposition in the OSDF.

4.2) Quantification – Building 77

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

5) Task #5 - Building 79

5.1) Plan/Scope - Building 79

Building 79 (Plant 6 Warehouse) is a single-level rectangular building measuring Approximately 100'x170'x15' high. Building 79 consists of a concrete floor and a structural steel frame with metal siding and roofing panels. The building is supported by a concrete foundation on grade. The small break room trailer inside Building 79 is assumed to be removed by the facility owner prior to D&D activities.

Structural and Equipment Dismantlement

No process-related equipment or materials have been identified.

Non-process piping, valves, conduit, cable, lighting, etc. will also remain intact until Structural Steel Removal.

The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the queuing area for disposition in the OSDF.

Structural steel will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queuing area for disposition in the OSDF.

5.2) Quantification – Building 79

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

6) Task #6 - Building 82A

6.1) Plan/Scope - Building 82A

Building 82A (Receiving/Incoming Materials Inspection Area Building) is a single-level rectangular building measuring Approximately 100'x100'x17' high. Building 82A consists of a concrete floor and a structural steel frame with metal siding and roofing panels. The building has interior cinderblock walls. The building is supported by a concrete foundation on grade.

Structural and Equipment Dismantlement

No process-related equipment or materials have been identified.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the queuing area for disposition in the OSDF.

Above-grade masonry/concrete walls will be removed by 1) administering water spray to wet the concrete before and during dismantlement, 2) use hoe ram or shears to dismantle and size reduce using pushover techniques, and 3) shear steel reinforcements, as needed.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queuing area for disposition in the OSDF.

Structural steel will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queuing area for disposition in the OSDF.

6.2) Quantification - Building 82A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

7) Task #7 - Demobilization

7.1) Plan/Scope - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

7.2) Quantification - Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

1.5.11 BFDDM - D&D Subcontract - Miscellaneous

This D&D scope of work consists of the following activities: premobilization, mobilization, D&D, and demobilization. These tasks will be issued as task orders to the D&D Closure Project contract or the Labor Hour Contract as the structure become available for D&D. This work will be conducted by the D&D contractor management team and Building Trades personnel.

1.1) Plan/Scope - Miscellaneous D&D

Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors

- PLA letter of assent and verification of pre-job meeting
- Pay Item schedule of values
- Baseline/manpower loaded schedule
- Letter Contractor will abide by FDF PSHSP & addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP
- Temporary facilities SWP
- Temporary utilities SWP

Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

- Install temporary portable toilets
- Install construction zone fencing 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting
- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850
- Mobilize equipment fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training Records
- MSDS
- Engineering Surveys
- Other documents as necessary.

D&D

The building, component, or trailer will be dismantled using a hydraulic shear. The contractor will size and containerize the debris in roll-off boxes and will move the containers to the queue area for disposition in the OSDF.

Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

The tasks are as follows:

1) Task #1 - Component 5F (Plant 5 Covered Storage Pad)

Component 5F is a pre-engineered metal structure 80 X 100 X 30 feet.

2) Task #2 - Component 12E (Maintenance Storage Shed)

Component 12E is a single story pre-engineered metal structure 20 X 20 X12 feet.

3) Task #3 - Component 12F (Maintenance Storage Shed)

Component 12F is a single story pre-engineered metal structure 20 X 20 X 12 feet.

4) Task #4 - Building 12G (Restored Area Maintenance Building)

Building 12G is a single story pre-engineered metal structure 20 X 20 X 12 feet.

5) Task #5 - Component 16B (Electrical Substation)

Component 16B is a cinder block building with a concrete floor and metal sheet roof measuring 20 x 40 ft. Component 16B contains electrical meters, panels and main circuit breakers. Component 16B is a secondary unit substation that receives 13.2 kV and transforms it down to 480V to power the Health and Safety Building, Security Building, Human Resources Building and east trailers.

6) Task #6 - Component 16C (Electrical Panels & Transformer)

Component 16C is a wooden, two-sided structure on a concrete pad that is approximately 4×20 ft. Component 16C shelters a transformer and electrical meter. Component 16C was used as a secondary unit substation that received 480 V and transformed it down to 208 V to provide electrical power to the east trailers.

7) Task #7 - Component 16F (Trailer Substation #1)

Component 16F is a concrete pad, 4×20 ft. with a small fiberglass enclosure for a transformer, main circuit breaker, fuse disconnect and electrical meters. Component 16F is a power distribution point that receives 480 V from the Electrical Substation and transforms it to 208 V to power local office trailers.

8) Task #8 - Component 16G (Trailer Substation #2)

Component 16G is a 4×20 ft. concrete pad with a small fiberglass enclosure for a transformer, main circuit breaker, fuse disconnect and electrical meters. Component 16G is a power distribution point that receives 480 V from the Electrical Substation and transforms it to 208 V to power the local office trailers.

9) Task #9 - Component 20E (Well House #1)

Component 20E (Well House #1) is a single story structure consisting of a cement block wall with a concrete floor and dimensions of $11 \times 20 \times 9$ ft. high. Component 20E is one of three on-site pumping stations that supply the process area with water for fire protection and other potable uses. Component 20E houses one electrical water pump and accompanying equipment.

10) Task #10 - Component 20F (Well House #2)

Component 20F (Well House #2) is a single story structure consisting of a cement block wall with a concrete floor and dimensions of $11 \times 20 \times 9$ ft. high. Component 20F is one of three on-site pumping stations that supply the process area with water for fire protection and other potable uses. Component 20F houses one electrical water pump and accompanying equipment.

11) Task #11 - Component 20G (Well House #3)

Component 20F (Well House #2) is a single story structure consisting of a cement block wall with a concrete floor and dimensions of $11 \times 20 \times 9$ ft. high. Component 20F is one of three on-site pumping stations that supply the process area with water for fire protection and other potable uses. Component 20F houses one electrical water pump and accompanying equipment.

12) Task #12 - Component 22B (Storm Sewer Lift Station)

Component 22B is a single story structure with cement block walls and concrete floor. Component 22B dimensions are $10 \times 16 \times 8$ ft. Component 22B is utilized to pump accumulated site stormwater off-site to the Great Miami River.

13) Task #13 - Component 22D (Scale House and Weigh Scale)

Component 22D is a metal framed transite sided 6 X 8 X 8 feet.

14) Task #14 - Component 23 (Meteorological Tower)

The Meteorological Tower is a steel structure located west of the Storm Water Retention Basin (18E). The tower holds climate monitoring instruments used to measure the day-to-day meteorological conditions of the surrounding area, to detect severe weather conditions, and to gather data to support the development of air dispersion models for the Emergency Operations Center in the event of an off-site airborne release.

15) Task #15 - Component 25C (Sewer Lift Station Building)

Component 25C (Sewage Lift Station Building) is a single story structure consisting of cement block walls on a reinforced concrete floor and dimensions of $15 \times 20 \times 9$ ft. high. Component 25C pumped accumulated sanitary wastes from the site to the Sewage Treatment Plant. The treated effluent is subsequently released to the Great Miami River

16) Task #16 - Component 26C (Main Electrical Substation Riser/Strainer House)

Component 26C (Main Electrical Strainer House) is a cinder block building with a partial concrete floor, transite roof and dimensions of $10 \times 12 \times 10$ ft. high. Component 26C contains the control valves for the main electrical deluge fire protection system, which provides fire sprinkler protection for the Main Electrical Station

17) Task #17 – Buildings 28E (Guard Post at OSDF South Entrance)

Component 28E is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

18) Task #18 – Building 28G (Guard Post NW of Building 45)

Component 28G is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

19) Task #19 - Building 28H (Guard Post South of K-65 Area)

Component 28H is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

20) Task #20 - Building 28J (Security Checkpoint - South Access Road)

Component 28J is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

21) Task #21 - Building 28K (Security Checkpoint - E. Parking Lot)

Component 28K is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

22) Task #22 - Building 28L (Guard Post - N. Construction Access Road)

Component 28L is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

23) Task #23 - Building 28M (Guard Post on "F" Street)

Component 28M is a metal framed fiberglass structure approximately 8 X 10 X 8 feet.

24) Task #24 - Building 30D (Sampling Line Processing)

Building 30D is located inside Building 30A.

25) Task #25 - Building 50 (Maintenance Storage Building)

Building 50 is a pre-engineered metal building 23 X 30 X 16 feet.

26) Task #26 - Building 52A (RTRAK Building)

Building 52A is a single story pre-engineered metal structure 20 X 20 X12 feet.

27) Task #27 - Building 52B (ASTD SCEP Building)

Building 52B is a pre-engineered metal building 23 X 30 X 16 feet.

28) Task #28 - Building 60 (Quonset Hut #1)

Building 60 is a single-story shelter, pre-engineered facility consisting of a structural steel frame on a reinforced poured concrete base with sloped steel roof panels, steel siding panels and glass windows. The facility has approximated dimensions of 41 X 60 X 20 feet high.

29) Task #29 - Building 61 (Quonset Hut #2)

Building 61 is a single-story shelter, pre-engineered facility consisting of a structural steel frame on a reinforced poured concrete base with sloped steel roof panels and steel siding panels. The facility has approximated dimensions of 41 X 60 X 20 feet high.

30) Task #30 - Building 62 (Quonset Hut #3)

Building 62 is a single-story shelter, pre-engineered facility consisting of a structural steel frame on a reinforced poured concrete base with sloped steel roof panels and steel siding panels. The facility has approximated dimensions of 41 X 60 X 20 feet high.

31) Task #31 – Building 68 (Pilot Plant Warehouse)

Building 68 is a metal framed building with metal siding and a metal roof 30 X 60 X 20 feet.

32) Task #32 - Building 93A (Southwest Boiler House)

Building 93A is a pre-engineered metal framed and metal sided building housing three (3) gas fired boilers 36 X 48 X 20 feet.

33) Task #33 - Component G-008 (Pipe Bridges)

Remove miscellaneous pipes, pipe racks, conduit, and power supply, etc., remove the piping from air gap isolation points in the pipe racks and power supply from the isolation points to the buildings, and piping and pipe racks from building to building shall be removed. The pipe racks shall be removed to the top of the concrete footer and the attachment bolts shall be cut flush with the concrete.

34) Task #34 - Building TS-08 (Environ. Monitor. Equip. Storage)

Component TS-08 is a steel tube framed structure enclosed within a synthetic covering. It is assumed that this structure will not be salvaged, but dismantled and sized for placement in the OSDF.

35) Task #35 - Trailer T1 (FF)

Trailer T1 is a 5-Plex trailer that measures 71 X 56 feet.

36) Task #36 - Trailer T2 (Rad Safety)

Trailer T2 is a single wide that measures 36 X 10 feet.

37) Task #37 - Trailer T3 (Wise Construction)

Trailer T3 is a single wide that measures 36 X 10 feet.

38) Task #38 - Trailer T4 (Multimedia Visual Storage)

Trailer T4 is a single wide that measures 36 X 10 feet.

39) Task #39 - Trailer T5 (FF Construction)

Trailer T5 is a single wide that measures 36 X 10 feet.

40) Task #40 - Trailer T6 (Restrooms)

Trailer T6 is a single wide that measures 36 X 10 feet.

41) Task #41 - Trailer T7 (FF)

Trailer T7 is a single wide that measures 46 X 10 feet.

42) Task #42 – Trailer T8 (Wise Construction)

Trailer T8 is a single wide that measures 44 X 10 feet.

43) Task #43 – Trailer T12 (CRU4-DLS)

Trailer T12 is a single wide that measures 10 X 30 feet.

44) Task #44 – Trailer T17 (FF)

Trailer T17 is a single wide that measures 44 X 10 feet.

45) Task #45 - Trailer T18 (Break Trailer)

Trailer T18 is a double wide that measures 56 X 24 feet.

46) Task #46 - Trailer T19 (Rad Safety)

Trailer T19 is a single wide that measures 12 X 60 feet.

47) Task #47 - Trailer T23 (10 Plex)

Trailer T23 is a 10 Plex that measures 118 X 56 feet.

48) <u>Task #48 – Trailer T24 (7 Plex – North)</u>

Trailer T24 is a 7 Plex that measures 82.5 X 56 feet.

49) Task #49 - Trailer T25 (7 Plex - South)

Trailer T25 is a 7 Plex that measures 82.5 X 56 feet.

50) Task #50 - Trailer T26 (Waste Management)

Trailer T26 is a single wide that measures 12 X 60 feet.

51) Task #51 - Trailer T29 (Computer)

Trailer T29 is a single wide that measures 66 X 14 feet.

52) Task #52 - Trailer T30 (Computer)

Trailer T30 is a single wide that measures 66 X 14 feet.

53) Task #53 - Trailer T33 (Shipping Office)

Trailer T33 is a single wide that measures 56 X 12 feet.

54) Task #54 - Trailer T34 (FF)

Trailer T34 is a single wide that measures 8 X 12 feet.

55) Task #55 - Trailer T35 (FF)

Trailer T35 is a double wide that measures 66 X 24 feet.

56) Task #56 - Trailer T36 (Heavy Equipment Operators)

Trailer T36 is a single wide that measures 8 X 30 feet.

57) Task #57 - Trailer T40 (Thorium Overpack)

Trailer T40 is a single wide that measures 8 X 26 feet.

58) Task #58 - Trailer T41 (Waste Certification - OA)

Trailer T41 is a single wide that measures 12 X 60 feet.

59) Task #59 - Trailer T42 (Respirator Washing Facility)

Trailer T42 is a single wide that measures 45 X 8 feet.

60) Task #60 - Trailer T43 (Restoration)

Trailer T43 is a double wide that measures 56 X 24 feet.

61) Task #61 - Trailer T44 (FF Maintenance)

Trailer T44 is a double wide that measures 56 X 24 feet.

62) Task #62 - Trailer T45 (Environmental Monitoring)

Trailer T45 is a double wide that measures 56 X 24 feet.

63) Task #63 - Trailer T46 (Environmental Monitoring)

Trailer T46 is a double wide that measures 56 X 24 feet.

64) Task #64 - Trailer T49 (Bio-Assay Semi-Trailer)

Trailer T49 is a single wide that measures 56 X 8 feet.

65) Task #65 - Trailer T50 (Rad Safety)

Trailer T50 is a single wide that measures 10 X 16 feet.

66) Task #66 – Trailer T57 (Rad Safety)

Trailer T57 is a double wide that measures 70 X 28 feet.

67) Task #67 – Trailer T58 (Construction Office)

Trailer T58 is a double wide that measures 70 X 28 feet.

68) Task #68 - Trailer T59 (FF Waste Management)

Trailer T59 is a single wide that measures 36 X 10 feet.

69) Task #69 - Trailer T60 (Environmental Monitoring)

Trailer T60 is a single wide that measures 8 X 20 feet.

70) Task #70 - Trailer T61 (Startup Group)

Trailer T61 is a single wide that measures 56 X 12 feet.

71) Task #71) - Trailer T62 (Startup Group)

Trailer T62 is a single wide that measures 50 X 12 feet.

72) Task #72 - Trailer T65 (Plant 1 Pad MC&A Office)

Trailer T65 is a single wide that measures 8 X 10 feet.

73) Task #73 - Trailer T66 (RIMIA Tri-Plex)

Trailer T66 is a Tri-Plex that measures 66 X 42 feet.

74) <u>Task #74 – Trailer T67 (Rad. Tech.)</u>

Trailer T67 is a single wide that measures 8 X 20 feet.

75) Task #75 - Trailer T68 (CRU1 Office)

Trailer T68 is a single wide that measures 10 X 60 feet.

76) Task #76 - Trailer T69 (Control Point - RIMIA)

Trailer T69 is a single wide that measures 10 X 20 feet.

77) Task #77 - Trailer T71 (Safe Shutdown)

Trailer T71 is a single wide that measures 56 X 12 feet.

78) Task #78 - Trailer T72 (Safe Shutdown)

Trailer T72 is a single wide that measures 50 X 12 feet.

79) Task #79 - Trailer T74 (ARASA Changeout Facility)

Trailer T74 is a Quad-Plex that measures 60 X 56 feet.

80) Task #80 - Trailer T75 (Multimedia Services)

Trailer T75 is a single wide that measures 60.5 X 12 feet.

81) Task #81 - Trailer T82 (Capital Project)

Trailer T82 is a double wide that measures 66 X 28 feet.

82) Task #82 - Trailer T83 (Capital Project)

Trailer T83 is a double wide that measures 66 X 28 feet.

83) Task #83 - Trailer T84 (Capital Project)

Trailer T84 is a double wide that measures 66 X 27.5 feet.

84) Task #84 - Trailer T85 (Capital Project)

Trailer T85 is a double wide that measures 66 X 27.5 feet.

85) Task #85 - Trailer T86 (Capital Project)

Trailer T86 is a double wide that measures 66 X 27.5 feet.

86) Task #86 - Trailer T87 (Capital Project)

Trailer T87 is a double wide that measures 66 X 27.5 feet.

87) Task #87 - Trailer T89 (WPA Men's Changeout)

Trailer T89 is a single wide that measures 56 X 14 feet.

88) Task #88 - Trailer T90 (WPA Women's Changeout)

Trailer T90 is a single wide that measures 56 X 14 feet.

89) Task #89 - Trailer T91 (WPA Men's Changeout)

Trailer T91 is a single wide that measures 56 X 14 feet.

90) Task #90 - Trailer T92 (WPA Breakroom)

Trailer T92 is a single wide that measures 56 X 14 feet.

91) Task #91 – Trailer T93 (Radiation Control Unit Quad)

Trailer T93 is a Quad-Plex that measures 60 X 56 feet.

92) Task #92 - Trailer T94 (Radiation Control Unit Quad)

Trailer T94 is a Quad-Plex that measures 60 X 56 feet.

93) Task #93 - Trailer T95 (Radiation Control Unit Quad)

Trailer T95 is a Quad-Plex that measures 60 X 56 feet.

94) Task #94 - Trailer T96 (Radiation Control)

Trailer T96 is a double wide that measures 60 X 28 feet.

95) Task #95 - Trailer T97 (FF Office - CRU4)

Trailer T97 is a single wide that measures 36 X 10 feet.

96) Task #96 - Trailer T98 (OSDF)

Trailer T98 is a single wide that measures 60 X 14 feet.

97) Task #97 - Trailer T100 (FF Office)

Trailer T100 is a single wide that measures 10 X 20 feet.

98) Task #98 - Trailer T103 (Storage)

Trailer T103 is a single wide that measures 10 X 12 feet.

99) Task #99 - Trailer T108 (IAWWTF)

Trailer T108 is a single wide that measures 56 X 12 feet.

100) Task #100 - Trailer T109 (IAWWTF)

Trailer T109 is a single wide that measures 56 X 12 feet.

101) Task #101 - Trailer T117 (CRU4 Construction Support Office)

Trailer T117 is a double wide that measures 24 X 66 feet.

102) Task #102 - Trailer T118 (CRU4 Support Office)

Trailer T118 is a single wide that measures 10 X 42 feet.

103) <u>Task #103 - Trailer T119 (Restrooms)</u>

Trailer T119 is a single wide that measures 46 X 10 feet.

104) <u>Task #104 – Trailer T121 (FF Office)</u>

Trailer T121 is a single wide that measures 14 X 74 feet.

105) Task #105 - Trailer T122 (Storage)

Trailer T122 is a single wide that measures 8 X 40 feet.

106) Task #106 - Trailer T127 (OEPA - Part of T68)

Trailer T127 is a double wide that measures 24 X 70 feet.

107) <u>Task #107 – Trailer T128 (Mixed Waste)</u>

Trailer T128 is a double wide that measures 25 X 60 feet.

108) Task #108 - Trailer T129 (OEPA - Part of T68)

Trailer T129 is a double wide that measures 24 X 60 feet.

109) Task #109 - Trailer T130 (Breakroom)

Trailer T130 is a double wide that measures 26 X 60 feet.

110) <u>Task #110 - Trailer T131 (Breakroom)</u>

Trailer T131 is a double wide that measures 26 X 60 feet.

111) Task #111 - Trailer T132 (Kelchner Office)

Trailer T132 is a single wide that measures 10 X 50 feet.

112) Task #112 - Trailer T135 (Boiler Maintenance)

Trailer T135 is a single wide that measures 14 X 56 feet.

113) Task #113 - Trailer T138 (Southern Waste Unit Site Prep. Group.)

Trailer T138 is a double wide that measures 28 X 70 feet.

114) Task #114 - Trailer T139 (Southern Waste Unit Site Prep. Group.)

Trailer T139 is a double wide that measures 28 X 70 feet.

115) Task #115 - Trailer T141 (Maintenance Storage)

Trailer T141 is a single wide that measures 8 X 32 feet.

116) Task #116 - Trailer T142 (Maintenance Storage)

Trailer T142 is a single wide that measures 39.5 X 8 feet.

117) <u>Task #117 – Trailer T164 (FF Training)</u>

Trailer T164 is a double wide that measures 24 X 60 feet.

118) Task #118 - Trailer T165 (FF Training)

Trailer T165 is a double wide that measures 24 X 60 feet.

119) Task #119 - Trailer T166 (Industrial Relations)

Trailer T166 is a double wide that measures 24 X 60 feet.

120) Task #120 - Trailer T167 (Industrial Relations)

Trailer T167 is a double wide that measures 24 X 60 feet.

121) Task #121 - Trailer T168 (ARASA Contractor)

Trailer T168 is a double wide that measures 24 X 60 feet.

122) Task #122 - Trailer T169 (ARASA Contractor)

Trailer T169 is a double wide that measures 24 X 60 feet.

123) Task #123 - Trailer T170 (ARASA Contractor)

Trailer T170 is a double wide that measures 24 X 60 feet.

124) Task #124 - Trailer T171 (ARASA Contractor)

Trailer T171 is a double wide that measures 24 X 60 feet.

125) <u>Task #125 – Trailer T172 (FCNDP)</u>

Trailer T172 is a double wide that measures 24 X 60 feet.

126) Task #126 - Trailer T173 (FCNDP)

Trailer T173 is a double wide that measures 24 X 60 feet.

127) Task #127 - Trailer T174 (FCNDP)

Trailer T174 is a double wide that measures 24 X 60 feet.

128) <u>Task #128 – Trailer T175 (FCNDP)</u>

Trailer T175 is a double wide that measures 24 X 60 feet.

129) <u>Task #129 – Trailer T176 (FCNDP)</u>

Trailer T176 is a double wide that measures 24 X 60 feet.

130) <u>Task #130 - Trailer T177 (FCNDP)</u>

Trailer T177 is a double wide that measures 24 X 60 feet.

131) Task #131 - Trailer T178 (FCNDP)

Trailer T178 is a double wide that measures 24 X 60 feet.

132) <u>Task #132 - Trailer T179 (FCNDP)</u>

Trailer T179 is a double wide that measures 24 X 60 feet.

133) <u>Task #133 - Trailer T181 (FF Office)</u>

Trailer T181 is a double wide that measures 24 X 60 feet.

134) Task #134 - Trailer T182 (FF Office)

Trailer T182 is a double wide that measures 24 X 60 feet.

135) Task #135 - Trailer T183 (FF Office)

Trailer T183 is a double wide that measures 24 X 60 feet.

136) Task #136 - Trailer T186 (OSDF Office Trailer)

Trailer T186 is a single wide that measures 10 X 10 feet.

137) Task #137 - Trailer T191 (Breakroom/Cooldown)

Trailer T191 is a single wide that measures 10 X 32 feet.

138) Task #138 - Trailer T301 (IT Corp.)

Trailer T301 is a single wide that measures 10 X 40 feet.

139) Task #139 - Trailer T305 (Environmental Monitoring)

Trailer T305 is a double wide that measures 24 X 48 feet.

140) Task #140 - Trailer T306 (Environmental Monitoring)

Trailer T306 is a single wide that measures 8 X 40 feet.

141) Task #141 - Trailer T312 (Cell 1 Personal Cool Down)

Trailer T312 is a single wide that measures 8 X 20 feet.

142) Task #142 - Trailer T313 (ARASA Admin. Office "A")

Trailer T313 is a Tri-Plex that measures 42 X 76 feet.

143) Task #143 - Trailer T314 (ARASA Admin. Office "B")

Trailer T314 is a Tri-Plex that measures 42 X 76 feet.

144) Task #144 - Trailer T315 (ARASA Laboratory Office)

Trailer T315 is a single wide that measures 10 X 50 feet.

145) Task #145 - Trailer T316 (ARASA Laboratory "A")

Trailer T316 is a single wide that measures 12 X 50 feet.

146) Task #146 - Trailer T317 (ARASA Laboratory "B")

Trailer T317 is a single wide that measures 12 X 50 feet.

147) Task #147 - Trailer T318 (ARASA MHB/RCLO Pow. Mod. Bld)

Trailer T318 is a single wide that measures 12 X 28 feet.

148) Task #148 - Trailer T319 (ARASA Breakroom)

Trailer T319 is a single wide that measures 12 X 56 feet.

149) Task #149 - Trailer T320 (ARASA Laun./Resp. wash facility)

Trailer T320 is a double wide that measures 28 X 56 feet.

150) Task #150 - Trailer T321 (ARASA MHB Rad. Cont. Trailer)

Trailer T321 is a single wide that measures 12 X 56 feet.

151) Task #151 - Trailer T322 (ARASA Supervisor's Office)

Trailer T322 is a single wide that measures 12 X 48 feet.

152) Task #152 - Trailer T323 (ARASA Control Room)

Trailer T323 is a single wide that measures 10 X 30 feet.

153) Task #153 - Trailer T325 (ARASA GCS/WTS Pow. Mod. Bldg)

Trailer T325 is a single wide that measures 8 X 40 feet.

154) Task #154 - Trailer T326 (ARASA Cont. Emissions Mon. Tr.)

Trailer T326 is a single wide that measures 6 X 8 feet.

155) Task #155 - Trailer T327 (Weigh Scale Ticket Office)

Trailer T327 is a single wide that measures 12 X 12 feet.

156) Task #156 - Trailer T330 (Doffing Trailer)

Trailer T330 is a single wide that measures 8 X 8 feet.

157) <u>Task #157 – Trailer T502 (IT Corp. ARASA)</u>

Trailer T502 is a Quad-Plex that measures 60 X 60 feet.

158) Task #158 - Trailer T505 (Facilities Shutdown Break Trailer)

Trailer T505 is a single wide that measures 24 X 8 feet.

159) <u>Task #159 - Trailer T506 (Office)</u>

Trailer T506 is a single wide that measures 14 X 60 feet.

160) Task #160 - Trailer T512 (Break- M. Ravenscraft)

Trailer T512 is a single wide that measures 10 X 48 feet.

161) Task #161 - Trailer T513 (Construction Coordinators)

Trailer T513 is a single wide that measures 12 X 60 feet.

162) Task #162 - Trailer T514 (Construction - Conference Room)

Trailer T514 is a single wide that measures 55 X 11 feet.

163) <u>Task #163 - Trailer T520 (S&W Office)</u>

Trailer T520 is a single wide that measures 24 X 8 feet.

164) <u>Task #164 - Trailer T529 (Storage)</u>

Trailer T529 is a single wide that measures 12 X 20 feet.

165) Task #165 - Trailer T540 (Triplex - Porter Breakroom)

Trailer T540 is a Quad-Plex that measures 48 X 60 feet.

166) Task #166 - Trailer T603 (Storage - Semi Trailer)

Trailer T603 is a single wide that measures 40 X 8 feet.

167) Task #167 - Trailer T604 (Maintenance Storage Semi Trailer)

Trailer T604 is a single wide that measures 40 X 8 feet.

168) Task #168 - Trailer T608 (Break Trailer - Waste Management)

Trailer T608 is a single wide that measures 8 X 12 feet.

169) Task #169 - Building 24C - Locomotive Engine House/Repair and Truck Washing Facility

Building 24C is a single-story building measuring 40 x 110 ft. and 30 ft. high and consists of a structural steel frame with non-insulated, corrugated metal siding and roofing on a reinforced poured concrete base and floor. There is minimal piping and equipment and it is assumed that there is neither ACM nor process-related equipment. Therefore, the entire structure will be dismantled and size reduced using a shear. In addition, the D&D includes all the area fencing, power poles, area lighting, and miscellaneous fixtures. The contractor will then containerize the debris and move the containers to the queue area for disposition in the OSDF.

170) Task #170 - Railroad Tracks

There are approximately four (4) miles of railroad track (132 lbs/yd gauge) that remains from the original site rail construction in the 1950s. There are approximately three miles of additional track (110 lbs/yd gauge) laid in 1997 to support ARASA waste handling and rail shipping operations.

R1-D-223

> R1-D-257

Removal of the railroad track will be conducted in two phases. Phase 1 will include the east rail yard, east of Building 24C and Phase 2 will include the remaining rail west of Building 24C to the C&O rail interchange.

As part of the D&D scope, all metal associated with the rails will be removed, leaving the wooden ties in place for below-grade excavation. The rail will be torch cut in no greater than ten-foot sections, loaded into roll-off boxes, and staged for transportation to the OSDF for disposal.

1.2) Quantification - Subcontract D&D

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

R1-F02-047

1.5.12 BFDDN - D&D Subcontract - Building 64/65

This D&D scope of work consists of the following activities: premobilization, mobilization, D&D, and demobilization. These tasks will be issued as task orders to the D&D Closure Project contract or the Labor Hour Contract as the structure become available for D&D. This work will be conducted by the D&D contractor management team and Building Trades personnel:

Task # 1 = Premobilization = Building 64/65

1-1) Plan/Scope = Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors
- PLA letter of assent & verification of pre-job meeting
- Pay Item schedule of values
- Baseline/manpower loaded schedule
- Letter Contractor will abide by FDF PSHSP & addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP
- Temporary facilities SWP
- Temporary utilities SWP

1.2) Quantification Premobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4.

2) Task #2 Mobilization

2.10 Plan/Scope : Mobilizarios

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

Install temporary portable toilets

- Install construction zone fencing = 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting
- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850
 - Mobilize equipment fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training_Records
- MSDS
- Engineering Surveys
- Other documents as necessary.

2.2) Quantification = Mobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4.

3) Task #3 - Building 64 (Thonum Warehouse)

3.1): :Ran/Scope = Building 64 (Thorium Warehouse)

Building 64 is a single story building constructed of corrugated metal walls on a concrete slab. The Building 64 metal roof is supported by steel beams and columns. Building 64 is received and measures 50 × 320 × 22 teat ingr.

3.2 Ovantification = Building 34 (Thorium Warehouse)

This work will be confuged by the D&D contractor management team and Building Trades personnels. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4.

4) Task #4 - Building 65 (Old Plant 5 Warehouse)

4.1) Plan/Scope - Building 65 (Old Plant 5 Warehouse)

Building 65 is a single story, rectangular building that measures 50 X 210 X 22 ft high. Building 65 consists of a structural steel frame with non-insulated corrugated metal siding and roofing on a reinforced concrete base.

4.2) Quantification = Building 65 (Old Plant 5 Warehouse)

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

5) Task #5 - Demobilization

5:1) Plan/Scope - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
 - Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

5,2) Quantification = Demobilization

This work will be conducted by the D&D contractor management feam and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4.

1.5.13 BFDD1 - D&D Subcontract - Plant 1, Phase II

This D&D scope of work will be issued as a task order to the D&D Closure Project contract. This task includes premobilization, mobilization, Building 1B D&D, Building 16N D&D, Building 20A D&D, Building 30A D&D, Building 56A D&D, Building 71 D&D, Components TS-04, TS-05, and TS-06 D&D, and demobilization. This work will be conducted by the D&D contractor management team and Building Trades personnel.

1) Task #1 - Premobilization

1.1) Plan/Scope - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors
- PLA letter of assent and verification of pre-job meeting
- Pay Item schedule of values
- Baseline/manpower loaded schedule
- Letter Contractor will abide by FDF PSHSP & addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP
- Temporary facilities SWP
- Temporary utilities SWP

1.2) Quantification - Premobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

2) Task #2 - Mobilization

2.1) Plan/Scope - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

Install temporary portable toilets

- Install asbestos trailer (1 singlewide), water (with 5 micron filter dump to sewer), (heat traced) sewer (heat traced)
- Install temporary utilities tie into substation in Building 20A water point source at low pressure fire protection system, connect to sanitary sewer in T93.
- Install construction zone fencing 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting
- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850
- Mobilize equipment fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training Records
- MSDS
- Engineering Surveys
- Other documents as necessary.

Building preparation consists of the following:

- Construction of vestibules
- Construction of Cool down areas
- Construction of Wash down areas

2.2) Quantification - Mobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

3) Task #3 - Building 1B

3.1) Plan/Scope - Building 1B

Structural Dismantlement

Building 1B is the steel shelter with metal panel roofing that covers a portion of the Plant 1 Pad. The roof has a height of 18 ft. The structure will be dismantled by shearing, sized to meet the OSDF category 2 placement criteria, containerized in roll-off boxes, and moved to the queue area for disposition in the OSDF.

3.2) Quantification - Building 1B

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

4) Task #4 - Building 20A

4.1) Plan/Scope - Building 20A

Building 20A is a single-story structure, which consists of a steel frame, metal roof, and transite panels on a reinforced concrete base. The approximate dimensions are 17×83 ft. and 12 ft. in height. This building supplies power to several structures and trailers located on and around the Plant 1 Pad. The building contains electrical meters, panels, and main circuit breakers. It will be the last building demolished as part of this project.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using handheld tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Exterior Asbestos Abatement

Transite siding (2 layers of panels) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts.

Fiberglass or Mineral Wool Insulation (Batting) located between the interior and exterior transite panels will be removed by 1) spraying encapsulant to exposed surfaces, 2) manually rolling the insulation upon itself, 3) applying amended water for dust suppression, as needed.

The Contractor will band panels together, place panels on a pallet, wrap the palletized panels in 6-mil poly, and move to the queue area for disposition in the OSDF.

The Contractor will size, segregate, and containerize the gutter debris, batting, and windows and move the container to the queue area for disposition in the OSDF.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Structural and Equipment Dismantlement

No process-related materials are anticipated in this facility. All equipment/systems may remain in the facility during structural demolition.

The contractor will size, segregate, and containerize the non-process debris and move the containers to the queue area for disposition in the OSDF.

Structural steel will be dismantled by shearing.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

4.2) Quantification – Building 20A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

5) Task #5 - Building 30A

5.1) Plan/Scope – Building 30A

Building 30A is a single-level structure measuring 82×321 ft. and 16 ft. high. This building is constructed of a steel frame supported on a reinforced poured concrete base with a reinforced concrete floor and transite siding panels and roof.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows: 1) wrap all ACM pipe in two layers of 6 mil poly; 2) install glovebag and HEPA ventilation every 10 feet; 3) perform smoke test; 4) wet surfaces with amended water; 5) remove ACM using hand-held tools; 6) encapsulate exposed ends; 7) remove glove bag; and 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

Exterior Asbestos Abatement

Transite siding (2 layers of panels) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts.

Fiberglass or Mineral Wool Insulation (Batting) located between the interior and exterior transite panels will be removed by 1) spraying encapsulant to exposed surfaces, 2) manually rolling the insulation upon itself, 3) applying amended water for dust suppression, as needed.

The contractor will band panels together, place panels on a pallet, wrap the palletized panels in 6-mil poly, and move to the queue area for disposition in the OSDF.

The contractor will size, segregate, and containerize the gutter debris, batting, and windows and move the container to the queue area for disposition in the OSDF.

Structural and Equipment Dismantlement

No process-related materials are anticipated in this facility. All equipment/systems may remain in the facility during structural demolition.

The contractor will size, segregate, and containerize the non-process debris and move the containers to the queue area for disposition in the OSDF.

Structural steel and all remaining non-process piping/equipment will be dismantled by shearing.

The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF

5.2) Quantification – Building 30A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

6) Task #6 - Building 56A

6.1) Plan/Scope - Building 56A

Building 56A is a single-story building measuring 50 \times 180 ft. and 14 ft. high and consists of a structural steel frame with non-insulated, corrugated metal siding and roofing on a reinforced poured concrete base and floor. There is minimal piping and equipment and it is assumed that there is neither ACM nor process-related equipment.

Structural Dismantlement

The entire structure will be dismantled and size reduced using a shear. The contractor will then containerize the debris and move the containers to the queue area for disposition in the OSDF.

6.2) Quantification – Building 56A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

7) Task #7 - Building 71

7.1) Plan/Scope - Building 71

Building 71 is a single-story measuring 100×241 ft. and 13 ft. high. The building consists of block walls, and a bar-joist truss roof system. There is minimal piping and equipment and it is assumed that there is neither ACM nor process-related equipment.

R1-D-441 In addition to Building 71, this task includes the removal of the pipe bridge north of 2rd Street to Building 71 and the former location of Building 2E.

Structural Dismantlement

Building 71 will be dismantled by: 1) administering water spray to wet the concrete before and during dismantlement; 2) using a concrete shear to dismantle and size reduce using

pushover techniques; and 3) shearing steel reinforcements, as needed. The contractor will size, segregate, and containerize the debris and move the containers to the queue area for disposition in the OSDF.

7.2) Quantification – Building 71

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

8) Task #8 - Component TS-04, TS-05 and TS-06

8.1) Plan/Scope - Component TS-04, TS-05 and TS-06

Components TS-4, TS-5, and TS-6 are steel tube framed structures enclosed within a synthetic covering. It is assumed that these structures will not be salvaged, but dismantled and sized for placement in the OSDF.

Structural Dismantlement

The structural framing members will be cut at their base using a shear and then size reduced once on the ground. The synthetic covering will be rolled/folded into bundles that meet the OSDF Category 2 size criteria.

8.2) Quantification – Components TS-04, TS-05 and TS-06

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

R1-F02-020 9) Task #8 - Component 16N

9.1) Plan/Scope - Component 16N

Structural Dismantlement

The structural framing members will be cut at their base using a shear and then size reduced once on the ground. The synthetic covering will be rolled/folded into bundles that meet the OSDF Category 2 size criteria.

9.2) Quantification = Components 16N

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

9 10) Task #9 10 - Demobilization

10.1) Plan/Scope - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

10.2) Quantification - Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

1.5.14 BFDD5 - D&D Subcontract - Plant 5

This Project includes premobilization, mobilization, Building 5A D&D, Building 5D D&D, and demobilization. This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor FTEs are presented in Section 3, and estimated quantities are presented in Section 4. This project has been awarded and is scheduled for completion in May 2001.

1) Task #1 - Premobilization

1.1) Plan/Scope - Premobilization

Premobilization activities are completed.

1.2) Quantification - Premobilization

Premobilization activities are completed.

2) Task #2 - Mobilization

2.1) Plan/Scope – Mobilization

Mobilization activities are completed.

2.2) Quantification - Mobilization

Mobilization activities are completed.

3) Task #3 - Building 5A

3.1) Plan/Scope - Building 5A

Building 5A is a three-level structural steel frame building. It is irregularly shaped measuring approximately 100 ft x 560 ft and 34 ft high. The building consists of a structural steel frame with transite siding and roofing panels. The south fifth of the building is a three story with poured concrete floors and columns. The north four fifths of the building is an open bay with mezzanines along the length of the building.

Interior Asbestos Abatement

ACM piping will be removed by glove bag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glove bag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using hand-held tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM Floor Tile will be removed by 1) applying amended water, 2) physically breaking the tiles using hand-held scrapers, 3) remove mastic by applying mastic dissolver and scouring the floor with a hand-held floor scrubber, 4) apply absorbent material (sawdust or cat litter) to remove any dissolved mastic.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queuing area for disposition in the OSDF.

Equipment/System Dismantlement

Contractor will seal all openings, install vestibule, and cleaning area.

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixative to areas which do not meet the release cleaning criteria.

Transite Removal

Transite roofing (1 layer of panel) would likely be removed by 1) spraying encapsulant on the exterior side of the outer panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the outer panels using a scissor lift/knuckleboom, and 4) spraying encapsulant on all previously unexposed surfaces of outer panels.

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Windows will be removed by 1) applying tape to the glass, 2) removing the glazing material using a hand-held "chisel", and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during Structural Steel Removal.

The Contractor shall band transite panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the queue area for disposition in the OSDF.

The Contractor(s) shall size, segregate, and containerize the gutter debris and windows and move the container to the queue area for disposition in the OSDF.

Structural and Equipment Dismantlement

Above-grade concrete walls will be removed by 1) administering water spray to wet the concrete before and during dismantlement, 2) use hoe ram or shears to dismantle and size reduce using pushover techniques, and 3) shear steel reinforcements, as needed.

Structural steel will be dismantled by shearing.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

3.2) Quantification – Building 5A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

R1-F02-044 The value entered into the Execution Baseline is equal to the original contract value plus all contract modifications through MOD. 18, minus Actual Costs of work performed through November 2000.

4) Task #4 - Component 5D

4.1) Plan/Scope - Component 5D

Building 5D (West Derby Breakout/Slag Milling Building is a four story steel new and unused building measuring approximately 41' x 160' x 50' high. The building consists of a concrete floor and a structural steel frame with metal siding and roofing panels. The building is supported by a concrete foundation on grade. Along the east wall between Building 5D and Building 5A is the exterior transite wall of Building 5A. The removal of this wall is covered in Building 5A.

Structural and Equipment Dismantlement

Non-process piping, valves, conduit, cable, lighting, etc. will also remain intact until Structural Steel Removal.

The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the queuing area for disposition in the OSDF.

Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixative to areas which do not meet the release cleaning criteria.

Structural steel, stairs, ladders, and steel decking will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queuing area for disposition in the OSDF.

4.2) Quantification - Component 5D

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

The value entered into the Execution Baseline is equal to the original contract value plus all contract modifications through MOD. 18, minus Actual Costs of work performed through November 2000.

5) Task #5 - Demobilization

5.1) Plan/Scope - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

5.2) Quantification - Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

R1-F02-044 The value entered into the Execution Baseline is equal to the original contract value plus all contract modifications through MOD. 18, minus Actual Costs of work performed through November 2000.

1.5.15 BFDD6 - D&D Subcontract - Plant 6

This Project includes premobilization, mobilization, Building 6A D&D, Building 6B D&D, Building 6C D&D, Building 6D D&D, Building 6E D&D, Building 6F D&D, Building 6G D&D, and demobilization. This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor FTEs are presented in Section 3, and estimated quantities are presented in Section 4.

1) Task #1 - Premobilization

1.1) Plan/Scope - Premobilization

Premobilization includes preparation and submittal of all documentation necessary to begin mobilization activities.

The Sub-Contractor shall submit the following pre-mob submittals prior to "Authorization to Mobilize" and after issuance of the Task Order:

- Insurance certificate
- List of sub-tier contractors
- PLA letter of assent & verification of pre-job meeting
- Pay Item schedule of values
- Baseline/manpower loaded schedule
- Letter Contractor will abide by FDF PSHSP and addendum to PSHSP
- Substance abuse program
- Hearing conservation program plan
- Behavior based safety program
- QA/QC program plan
- 10 hour site safety training
- HAZWOPER training with OSHA supervised field experience form
- Mobilization SWP
- Waste handling SWP
- Temporary facilities SWP
- Temporary utilities SWP

1.2) Quantification - Premobilization

This task is completed and no further action is required.

2) Task #2 - Mobilization

2.1) Plan/Scope - Mobilization

Mobilization includes field preparation activities, preparation of submittal documentation and building preparation.

Field preparation consists of the following activities:

- Install temporary portable toilets
- Install asbestos trailer (1 singlewide), water (with 5 micron filter dump to sewer), (heat traced) sewer (heat traced)
- Install temporary utilities tie into substation in Building 36 water point source at low pressure fire protection system, connect to sanitary sewer at 101st & "B".
- Install construction zone fencing 4' orange fencing (majority of zone has existing 4' wire fencing)
- Conduct alignment meeting

- Perform engineering survey structural and floor loading in accordance with OSHA 1926.850
- Mobilize equipment fork truck, pick-up truck, skid steer, track-mounted shear, back hoe, man-lift, scissor-lift, HEPA vacuums, air filtration devices, turnover-government furnished equipment, etc.

Submittal documentation consists of the following:

- Safe Work Plans
- Training Records
- MSDS
- Engineering Surveys
- Other documents as necessary.

Building preparation consists of the following:

- Construction of vestibules
- Construction of Cool down areas
- Construction of Wash down areas

2.2) Quantification - Mobilization

This task is completed and no further action is required.

3) Task #3 - Building 6A

3.1) Plan/Scope - Building 6A

A single level, irregularly shaped building measuring approximately 350 ft x 620 ft and 50 ft high with partial basement 20 ft below grade. Building 6A consists of a structural steel frame on a reinforced poured concrete base and floor with transite siding and roofing.

Interior Asbestos Abatement

ACM piping will be removed by glove bag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glove bag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using hand-held tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

ACM Floor Tile will be removed by 1) applying amended water, 2) physically breaking the tiles using hand-held scrapers, 3) remove mastic by applying mastic dissolver and scouring

the floor with a hand-held floor scrubber, 4) apply absorbent material (sawdust or cat litter) to remove any dissolved mastic.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queuing area for disposition in the OSDF.

Equipment/System Dismantlement

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

Acid brick will be removed by 1) manually breaking and removing a few brick to create access using a spud bar, 2) removing acid bricks one at a time by hand, 3) dampening surfaces with water to minimize airborne dust, 4) using HEPA vacuum to remove particulates, 5) maintaining localized HEPA ventilation near work area.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixative to areas which do not meet the release cleaning criteria.

Structural and Equipment Dismantlement

Transite siding (1 layer of panel) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Transite roofing (1 layer of panel) would likely be removed by 1) spraying encapsulant on the exterior side of the outer panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the outer panels using a scissor lift/knuckleboom, and 4) spraying encapsulant on all previously unexposed surfaces of outer panels.

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using

mechanical methods, and 6) lowered to the ground in the manlifts. Structural steel and the tank will be dismantled by shear.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Windows will be removed by 1) applying tape to the glass, 2) removing the glazing material using a hand-held "chisel", and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during Structural Steel Removal.

The Contractor shall band transite panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the queue area for disposition in the OSDF.

The Contractor(s) shall size, segregate, and containerize the gutter debris and windows and move the container to the queue area for disposition in the OSDF.

Structural and Equipment Dismantlement

Above-grade concrete walls will be removed by 1) administering water spray to wet the concrete before and during dismantlement, 2) use hoe ram or shears to dismantle and size reduce using pushover techniques, and 3) shear steel reinforcements, as needed.

Structural steel will be dismantled by shearing.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

3.2) Quantification – Building 6A

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

R1-F02-045 The value entered into the Execution Baseline is equal to the original contract value, plus all contract modifications through MOD. 17; minus Actual Costs of work performed through November 2000.

4) Task #4 - Building 6B

4.1) Plan/Scope - Building 6B

Plant 6 Covered Storage Area

Equipment/System Dismantlement

Contractor will seal all openings, install vestibule, and cleaning area.

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Non-process piping, valves, conduit, cable, lighting, etc. will also remain intact until Structural Steel Removal.

The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the queuing area for disposition in the OSDF.

Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixative to areas which do not meet the release cleaning criteria.

Structural and Equipment Dismantlement

Structural steel, stairs, ladders, and steel decking will be dismantled by shear.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queuing area for disposition in the OSDF.

4.2) Quantification - Building 6B

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

R1-F02-045 The value entered into the Execution Baseline is equal to the original contract value, plus all contract modifications through MOD. 17, minus Actual Costs of work performed through November 2000.

5) Task #5 - Building 6C

5.1) Plan/Scope - Building 6C

Building 6C is a single level building measuring approximately 16 ft x 30 ft and 14 ft high. Building 6C is adjacent to the east side of the Metals Fabrication Plant, and consists of a poured concrete base and floor, a structural steel frame and corrugated steel siding.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glovebag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using handheld tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queuing area for disposition in the OSDF.

Equipment/System Dismantlement

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixative to areas which do not meet the release cleaning criteria.

Structural and Equipment Dismantlement

Structural steel will be dismantled by shearing.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

5.2) Quantification - Building 6C

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

R1-F02-045 The value entered into the Execution Baseline is equal to the original contract value, plus all contract modifications through MOD. 17, minus Actual Costs of work performed through November 2000.

6) Task #6 - Building 6D

6.1) Plan/Scope - Building 6D

Building 6D is a single level building measuring approximately 16 ft \times 30 ft and 14 ft high. Building 6D is adjacent to the east side of the Metals Fabrication Plant, and consists of a poured concrete base and floor, a structural steel frame and corrugated steel siding.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glovebag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using hand-held tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queuing area for disposition in the OSDF.

Equipment/System Dismantlement

Contractor will seal all openings, install vestibule, and cleaning area.

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixative to areas which do not meet the release cleaning criteria.

Structural and Equipment Dismantlement

Structural steel will be dismantled by shearing.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

6.2) Quantification - Building 6D

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

R1-F02-045 The value entered into the Execution Baseline is equal to the original contract value, plus all contract modifications through MOD. 17, minus Actual Costs of work performed through November 2000.

7) Task #7 - Building 6E

7.1) Plan/Scope - Building 6E

Building 6E is a single level building measuring approximately 16 ft x 30 ft and 14 ft high. Building 6E is adjacent to the east side of the Metals Fabrication Plant (Component 6A), and consists of a poured concrete base and floor, a structural steel frame, and corrugated steel siding and roofing.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glovebag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using hand-held tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queuing area for disposition in the OSDF.

Equipment/System Dismantlement

Contractor will seal all openings, install vestibule, and cleaning area.

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixative to areas which do not meet the release cleaning criteria.

Structural Dismantlement

Structural steel will be dismantled by shearing.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

7.2) Quantification - Building 6E

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

R1-F02-045 The value entered into the Execution Baseline is equal to the original contract value, plus all contract modifications through MOD. 17, minus Actual Costs of work performed through November 2000.

8) Task #8 - Building 6F

8.1) Plan/Scope - Building 6F

Building 6F (Salt Oil Heat Treatment Building) is a single level building that adjoins the south end of the Metals Fabrication Plant (Component 6A). The rectangular building measures approximately 25 ft x 45 ft and 20 ft high. The building consists of a structural steel frame on a concrete base with transite siding and roofing panels.

Interior Asbestos Abatement

ACM piping will be removed by glovebag containments as follows 1) wrap all ACM pipe in two layers of 6 mil poly, 2) install glovebag and HEPA ventilation every 10 feet, 3) perform smoke test, 4) wet surfaces with amended water, 5) remove ACM using handheld tools, 6) encapsulate exposed ends, 7) remove glove bag, 8) mechanically cut pipe at abated areas using band saw, reciprocating saw, or disassemble pipes at joints or fittings.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queuing area for disposition in the OSDF.

Equipment/System Dismantlement

Contractor will seal all openings, install vestibule, and cleaning area.

Process- Related Materials will be dismantled by 1) HEPA vacuuming, wet wiping, and/or fixing any gross loose contamination off the exterior surfaces, 2) disconnect the piece of equipment by unbolting, sawing, or cutting with torch, 3) seal openings with 6 mil poly or tape, 4) if applicable, lower to the ground using forklift or bobcat, 5) move equipment to inspection area and potential decon.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixative to areas which do not meet the release cleaning criteria.

Transite Removal

Transite siding (1 layer of panel) would likely be removed by 1) spraying encapsulant on the interior and exterior of the panels using a hand-held sprayer by workers on ground or in a manlift, 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the panels by hand if on ground level or, for elevated removal, lowering the panels using a scissor lift/elevated work platform.

Transite roofing (1 layer of panel) would likely be removed by 1) spraying encapsulant on the exterior side of the outer panels using a hand-held sprayer by workers on ground or in a manlift; 2) manually detaching and collecting the fasteners (assumed lead metal), and 3) lowering the outer panels using a scissor lift/knuckleboom, and 4) spraying encapsulant on all previously unexposed surfaces of outer panels.

Gutters and down spouts will be removed by 1) accessing using manlifts, 2) ACM contents wet with amended water, 3) ACM contents manually scooped out, 4) encapsulant applied to the cleaned gutter/spout, 5) disassembled at the joints using mechanical methods, and 6) lowered to the ground in the manlifts.

All lead material shall be segregated and placed into drums in accordance with the Material Segregation and Containerization Criteria requirements.

Windows will be removed by 1) applying tape to the glass, 2) removing the glazing material using a hand-held "chisel", and 3) lead frames will be removed manually in conjunction with window removal or non-lead frames may be removed during Structural Steel Removal.

The Contractor shall band transite panels together, place panels on a pallet, wrap the palletized panels in 6 mil poly, and move to the queue area for disposition in the OSDF.

The Contractor(s) shall size, segregate, and containerize the gutter debris and windows and move the container to the queue area for disposition in the OSDF.

Structural Dismantlement

Structural steel will be dismantled by shearing.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

8.2) Quantification - Building 6F

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

R1-F02-045 The value entered into the Execution Baseline is equal to the original contract value, plus all contract modifications through MOD: 17, minus Actual Costs of work performed through November 2000.

9) Task #9 - Building 6G

9.1) Plan/Scope - Building 6G

Building 6G (Plant 6 Sump Building) is a newly built, unused multi-story structure located on the northeast corner of the Metals Fabrication Plant (6A). The building consists of a structural steel frame with metal siding and roofing. The structure was built on a reinforced concrete pad. The approximate dimensions of building 6G are 42 ft x 90 ft and 39 ft high.

Equipment/System Dismantlement

Containments are not required for equipment/system removal in Building 6G.

Non-process piping, valves, conduit, cable, lighting, etc. will remain in the building during Structural Steel Removal.

The Contractor(s) shall size, segregate, and containerize the non-process debris and move the container to the queue area for disposition in the OSDF. Release Cleaning will be performed by 1) HEPA vacuuming and/or wet wipe any loose contamination or residuals, 2) using high pressure, low volume water washing, 3) applying fixative to areas which do not meet the release cleaning criteria.

Structural Dismantlement

Structural steel will be dismantled by shearing.

The Contractor(s) shall size, segregate, and containerize the debris and move the container to the queue area for disposition in the OSDF.

9.2) Quantification - Building 6G

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

R1-F02-045 The value entered into the Execution Baseline is equal to the original contract value, plus all contract modifications through MOD: 17, minus Actual Costs of work performed through November 2000.

10) Task #10 - Demobilization

10.1) Plan/Scope - Demobilization

Demobilization includes the following activities:

- Decontaminate equipment (heavy equipment)
- Remove temporary fencing
- Remove asbestos trailer, tool trailer, office trailer, temporary utilities
- Complete punchlist items. Trim rebar, grout remaining openings, gravel open areas, clean up debris

10.2 Quantification - Demobilization

This work will be conducted by the D&D contractor management team and Building Trades personnel. The D&D Schedule is presented in Section 2, Subcontractor hours are presented in Section 4, and estimated materials and quantities are presented in Section 4.

R1-F02-045 The value entered into the Execution Baseline is equal to the original contract value, plus all contract modifications through MOD- 17, minus Actual Costs of work performed through November 2000.